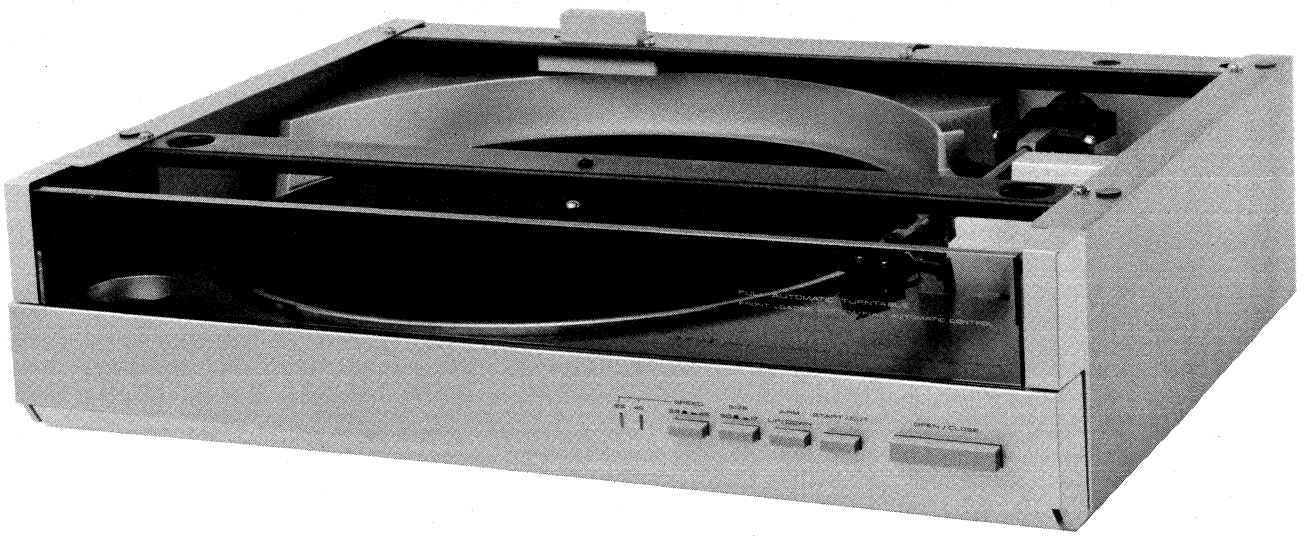

SERVICE MANUAL

MODEL FP-3

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

I . SPECIFICATION ION

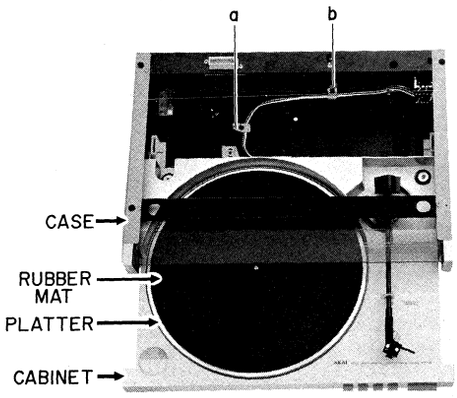
TURNTABLE SECTION	
DRIVE SYSTEM & MECHANISM	Belt Drive, Fully Automatic, Front Loading System
MOTORS	Electronically speed controlled DC motor x 1 DC motor for Loading system x 1
SPEED	33-1/3 rpm, 45 rpm
WOW AND FLUTTER	0.04% (WRMS)
RUMBLE	73 dB (DIN 8)
CARTRIDGE	YM Type
REPLACEMENT STYLUS	RS-83

* For improvement purposes, specifications and design are subject to change without notice.

II. DISMANTLING OF UNIT

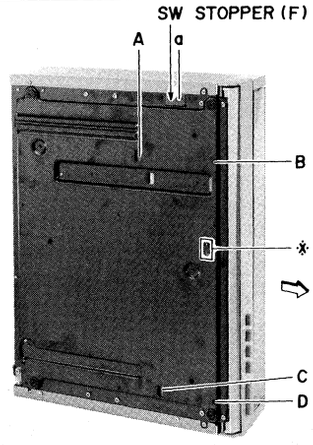
In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

1



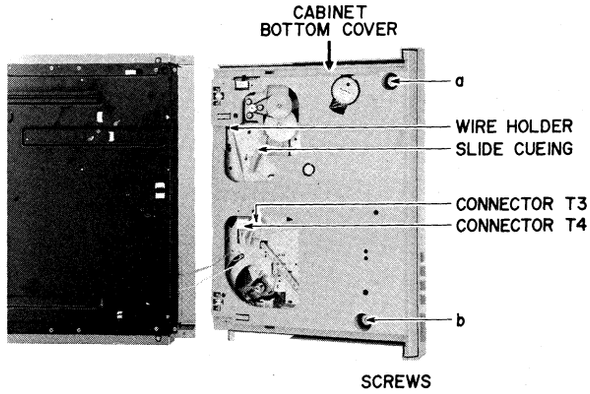
SCREWS

2



SCREW

3



SCREWS

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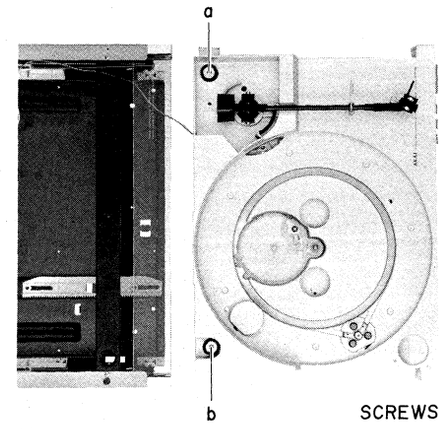

SCREWS

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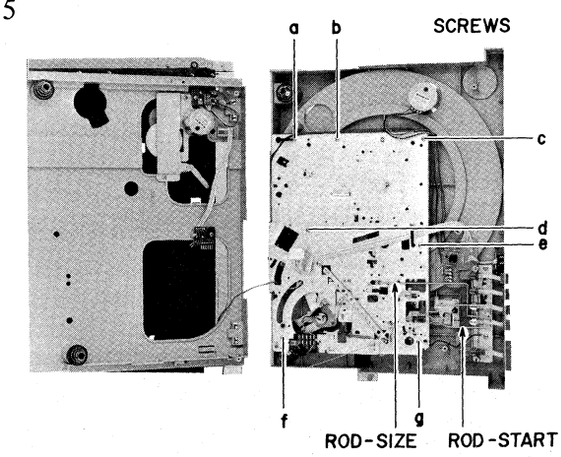

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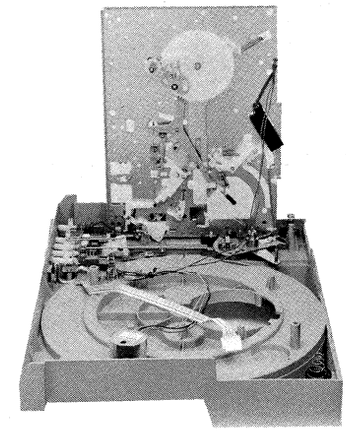


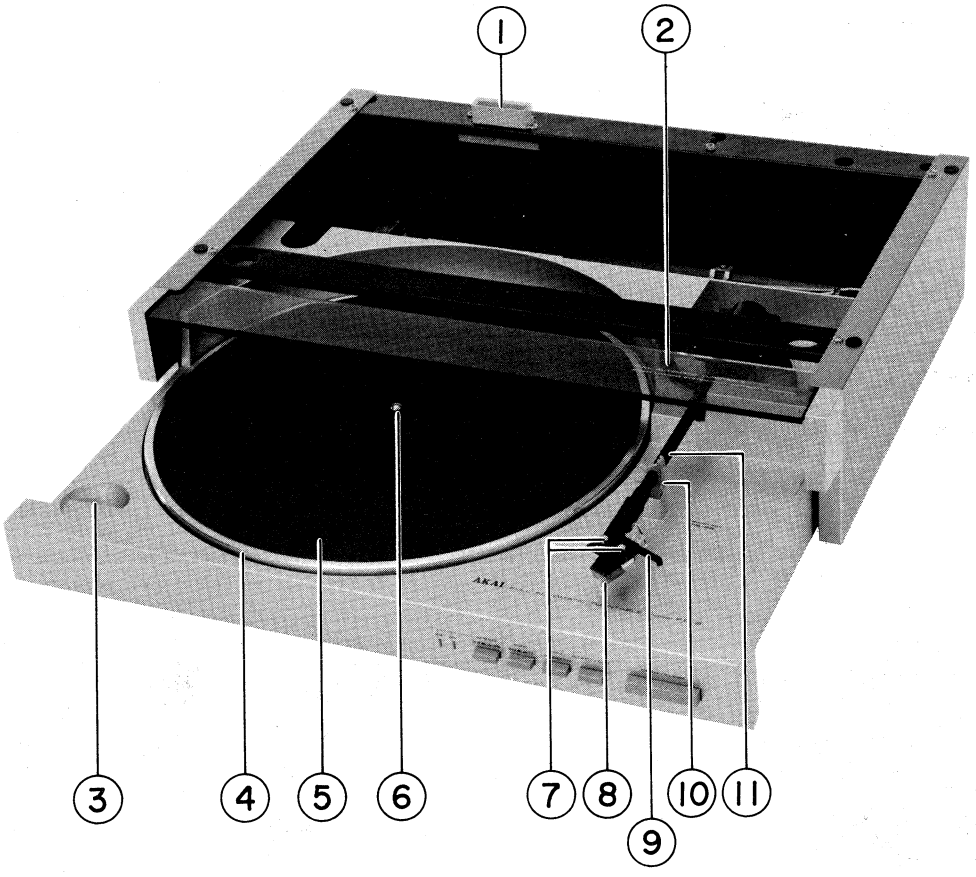


Fig. 3-1

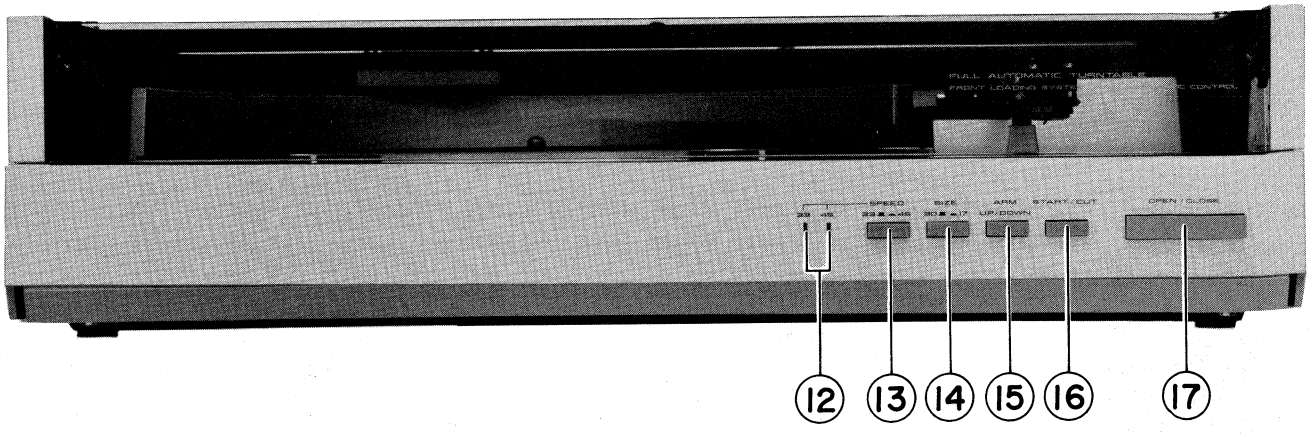


Fig. 3-2

1. POWER CONNECTOR
2. ARM LIFTER
3. 45 RPM ADAPTER HOLDER
4. PLATTER
5. RUBBER MAT
6. SPINDLE
7. OVER HANG ADJUSTMENT SCREWS
8. CARTRIDGE (WITH STYLUS)
9. HEADSHELL
10. TONE ARM REST AND CLAMP
11. TONE ARM
12. SPEED INDICATORS
13. SPEED SELECTOR
14. SIZE SELECTOR
15. ARM UP/DOWN SWITCH
16. START/CUT BUTTON
17. OPEN/CLOSE BUTTON

IV. PRINCIPAL PARTS LOCATION

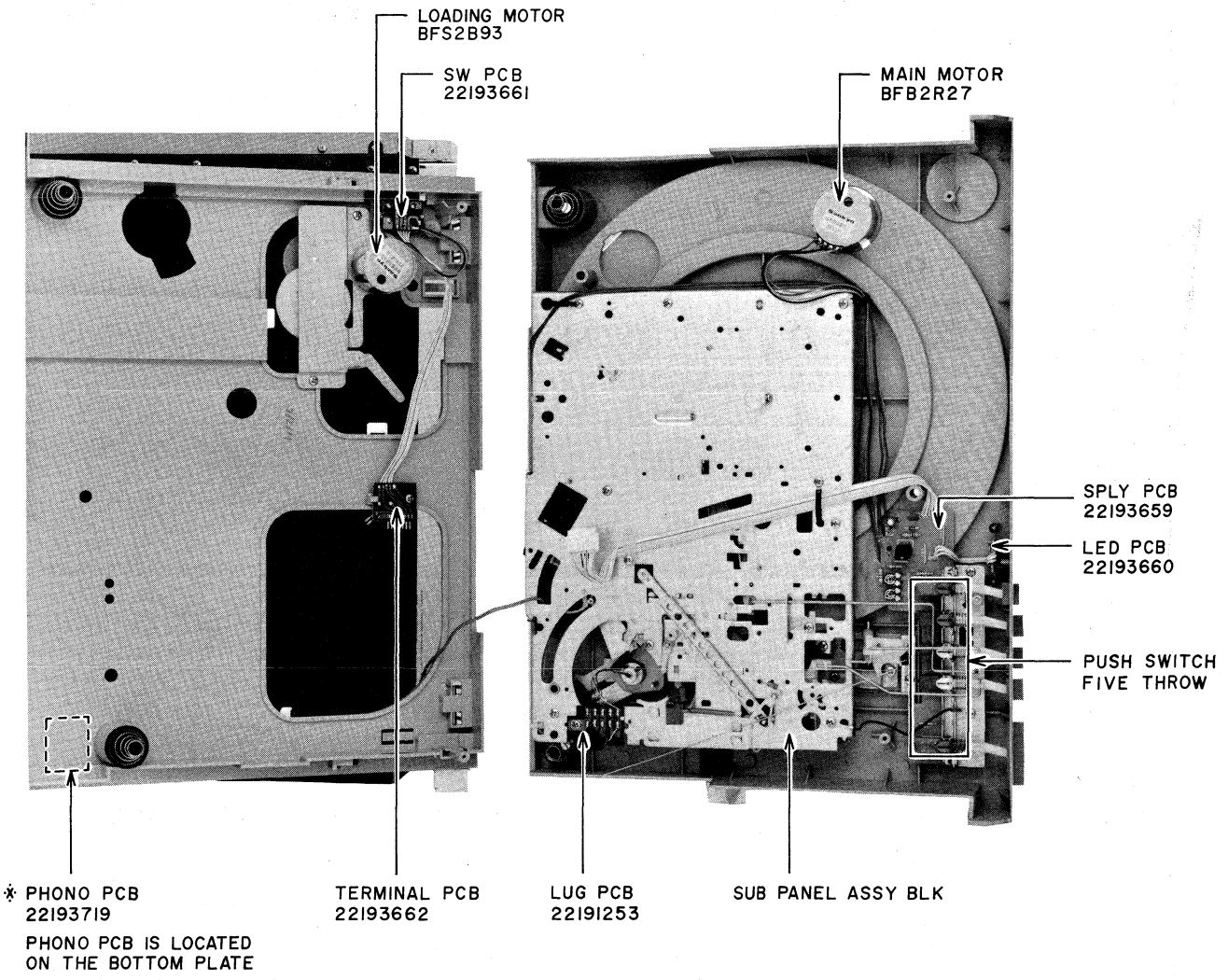


Fig. 4-1

V. ADJUSTMENT

5-1. HORIZONTAL ADJUSTMENT

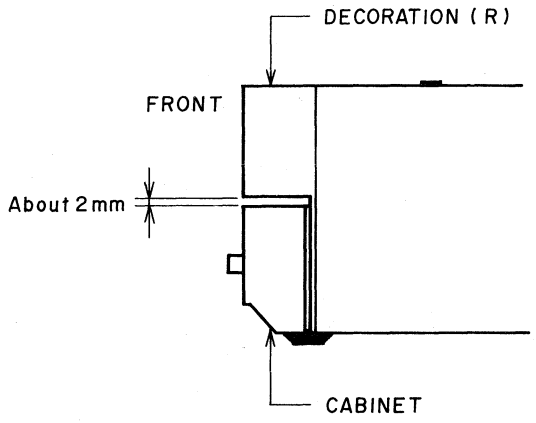


Fig. 5-1 Right Side View

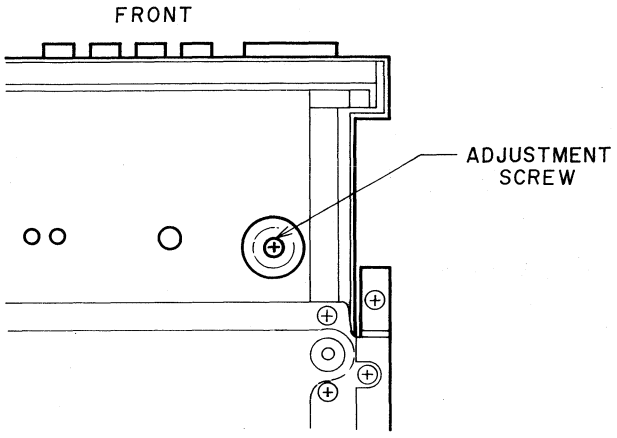


Fig. 5-2 Adjustment Point

Adjust the Adjustment screw which located bottom (refer to Fig. 5-2) so that the space between Decoration (R) and Cabinet is about 2mm.

5-2. TONE ARM HEIGHT ADJUSTMENT

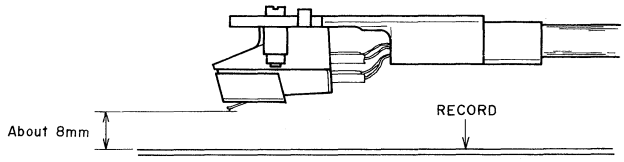


Fig. 5-3

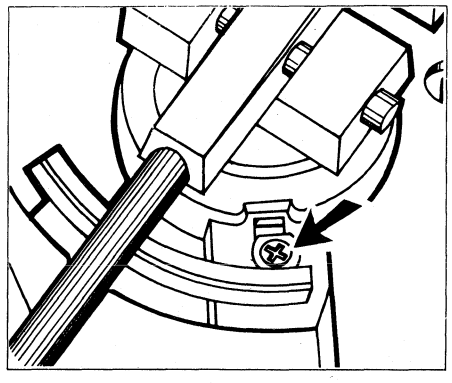


Fig. 5-4 Adjustment Point

With tone arm in the up-position, (tone arm is on the arm lifter), the stylus should be about 8mm above from the surface of the record. Turn the adjustment screw to change the height.

Clockwise: down

Counterclockwise: up

5-3. LEAD IN/LEAD OUT POSITION ADJUSTMENT

1) Place a record on the platter. (Use a 30cm record.)
2) Auto-play the record and confirm where the stylus descends.
3) Depress the START/CUT button to Return the Tone arm to Tone arm Rest.
4) IF the Stylus does not descends within the Lead-in aria. Adjust, Lead in/Lead out Adjustment screw with a screw driver,
   Clockwith: To make the Stylus descend towards the spindle.
   Counterclockwith: To make the Stylus descend away from the spindle.
5) The proper Adjustment of the Lead in position will automatically Adjust the proper Lead out position.

NOTE: Do not turn the screw to far carry out the adjustment a little at a time and confirm the position after each adjustment.

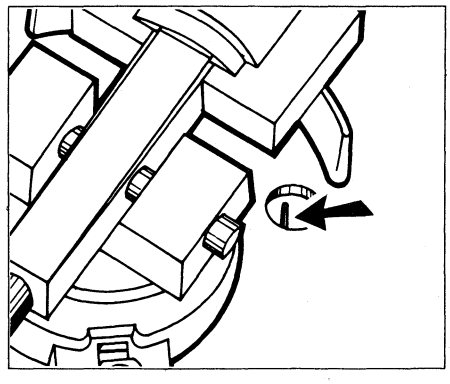


Fig. 5-5 Adjustment Point

5-4. SPEED ADJUSTMENT

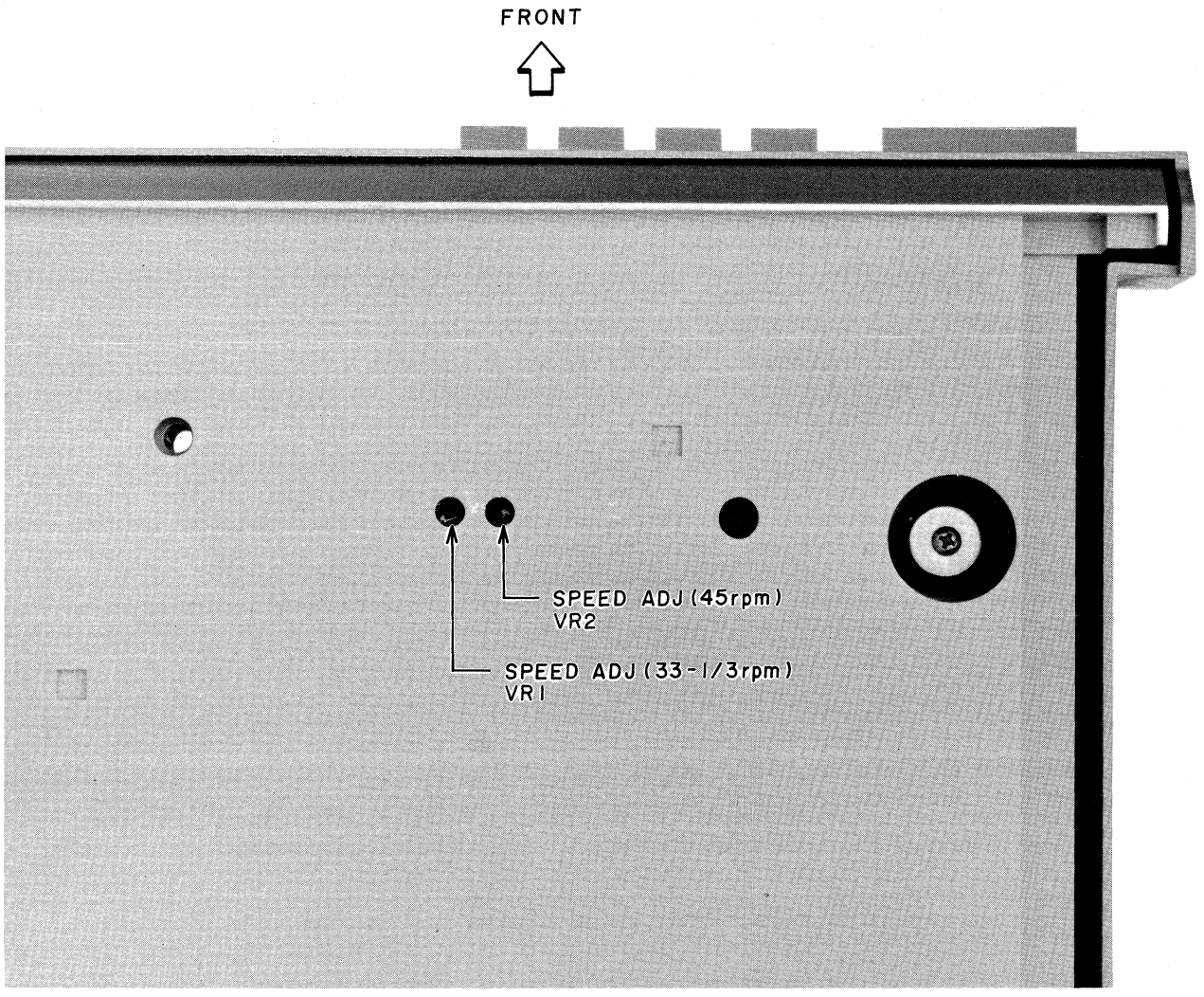


Fig. 5-6 Adjustment Point

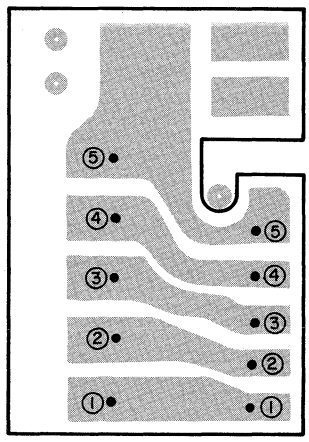
1) Set the speed selector to 33-1/3 rpm.
2) Play Back the Test Record (33-1/3rpm. 1,000Hz).
3) Adjust VR1 (5KB), so that the Speed is 1,000±5Hz.
4) Set the Speed Selector to 45rpm.
5) Play Back the Test Record (45rpm, 1,000Hz).
6) Adjust VR2 (10KB), so that the Speed is 1,000±5Hz.

VI. CLASSIFICATION OF VARIOUS P.C BOARDS

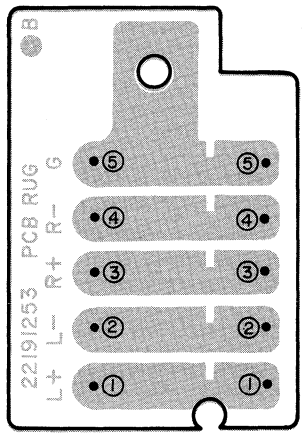
6-1. P.C BOARD TITLES AND IDENTIFICATION NUMBERS

P.C BOARD TITLE	P.C BOARD NUMBER
SPLY P.C Board	22193659
LED P.C Board	22193660
SW P.C Board	22193661
TERMINAL P.C Board	22193662
LUG P.C Board	22191253
PHONO P.C Board	22193719

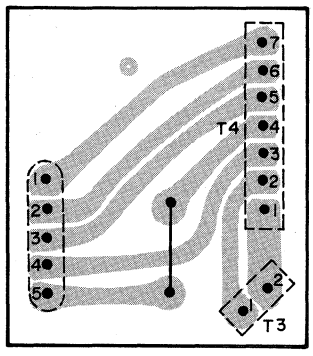
6-2. COMPOSITION OF VARIOUS P.C BOARDS



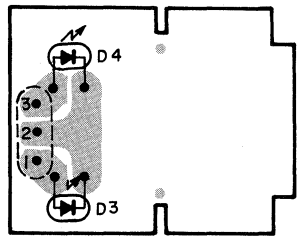
PHONO PCB 22193719



LUG PCB 22191253

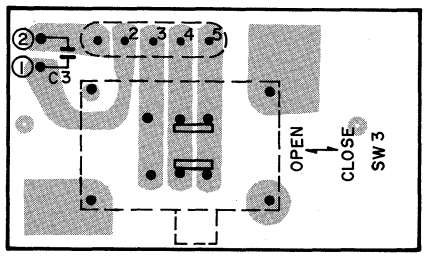


TERMINAL PCB 22193662

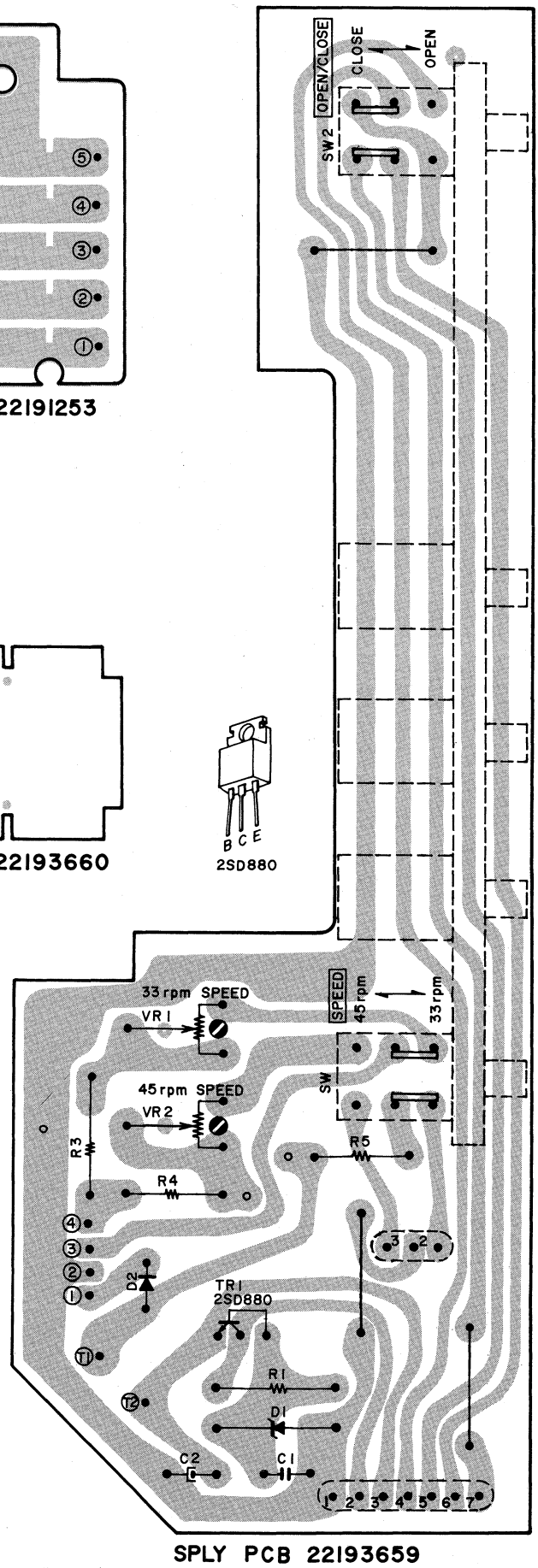


LED PCB 22193660

2SD880



SW PCB 22193661



SPLY PCB 22193659

SECTION 3

PARTS LIST

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1. MECHA BLOCK 34
2. AF P.C BOARD BLOCK 36
3. RADIO P.C BOARD BLOCK 37
4. CONTROL P.C BOARD BLOCK 37
5. ASSEMBLY BLOCK 38
6. FINALY ASSEMBLY BLOCK 39

II. MODEL FP-3

1. P.C BOARD BLOCK 41
2. MECHA AND FA CHASSIS BLOCK 41
3. ASSEMBLY BLOCK 42
4. CABINET BLOCK 43

INDEX 44

Resistor and Capacitor which is not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.

ATTENTION

1. When placing an order for parts, be sure to list the parts no. model no., and description. There are instances in which if any of this information is omitted, parts cannot be shipped or the wrong parts will be delivered.
2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
3. Because parts number and parts unit supply in the Preliminary Parts List may be partially changed, please use this parts list for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List shows the parts that are considered necessary for repairs. Other parts, such as resistors and capacitors, are shown in the "Common List for Service Parts". Select and order such parts from the "Common List for Service Parts".
2. The Recommended Spare Parts shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not be supplied in principle.
4. How to read list

a) Mechanism Block

2. HEAD BASE BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-1x	BH-T2023A320A	HEAD BASE BLOCK GX-F66R
2-2	HP-H2206A010A	HEAD R/P PR4-8FU C
2-3	ZS-477876	PAN20x03STL CMT
2-4	ZS-536488	BID20x08STL CMT
2-5	ZG-402895	CS ANGLE ADJUST SPRING

SP (Service Parts) Classification

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

This number corresponds with the individual parts index number in that figure

This number corresponds with the Figure Number

b) P.C Board Block

6. SYS. CON. P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
6-1	BA-T2034A070A	PC SYS CON BLK GX-F44R
6-IC1	EI-324536	IC HD14049BP
6-IC2	EI-336801	IC MB8841-564M
6-IC3	EI-331661	IC SN7405N
6-IC4	EI-336725	IC M54527P
6-TR1to4	ET-200985	TR 2SC2603 F,G
6-TR5to28	ET-554657	TR 2SA733A P,Q
6-D1	ED-318292	D SILICON H 1S2473T-77 T26
6-D2to4	ED-308952	D GERMA V 1K34A-LR F07
6-D5to10	ED-318292	D SILICON H 1S2473T-77 T26
6-X1	EI-318384	OSC X'TAL NC-18C 3.579545MHZ

SP (Service Parts) Classification

This reference numbers corresponds with symbol numbers of Schematic Diagrams.

5. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List. It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index.

WARNING

⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS

AVERTISSEMENT

⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LE FABRICANT

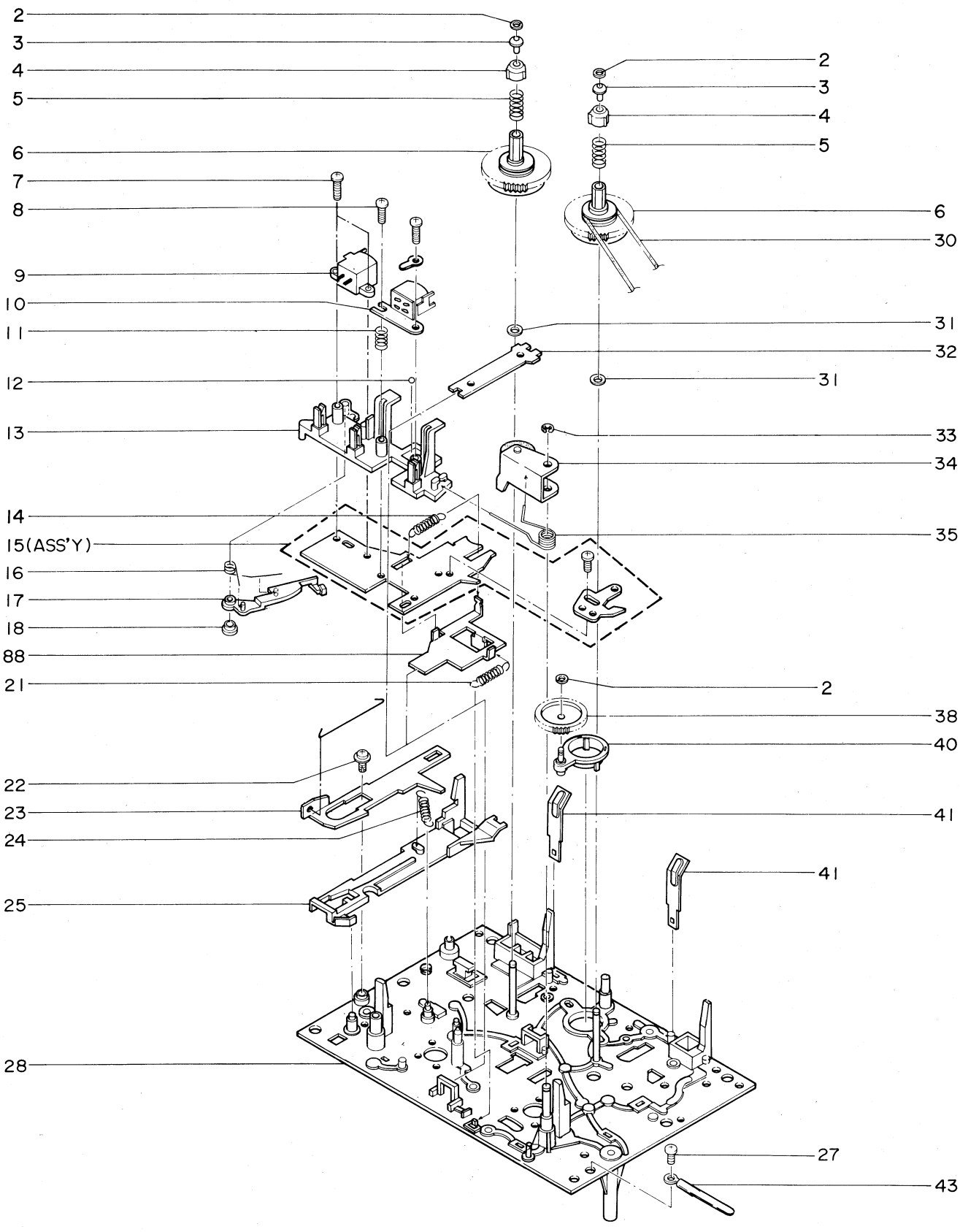
I. MODEL FD-1

RECOMMENDED SPARE PARTS

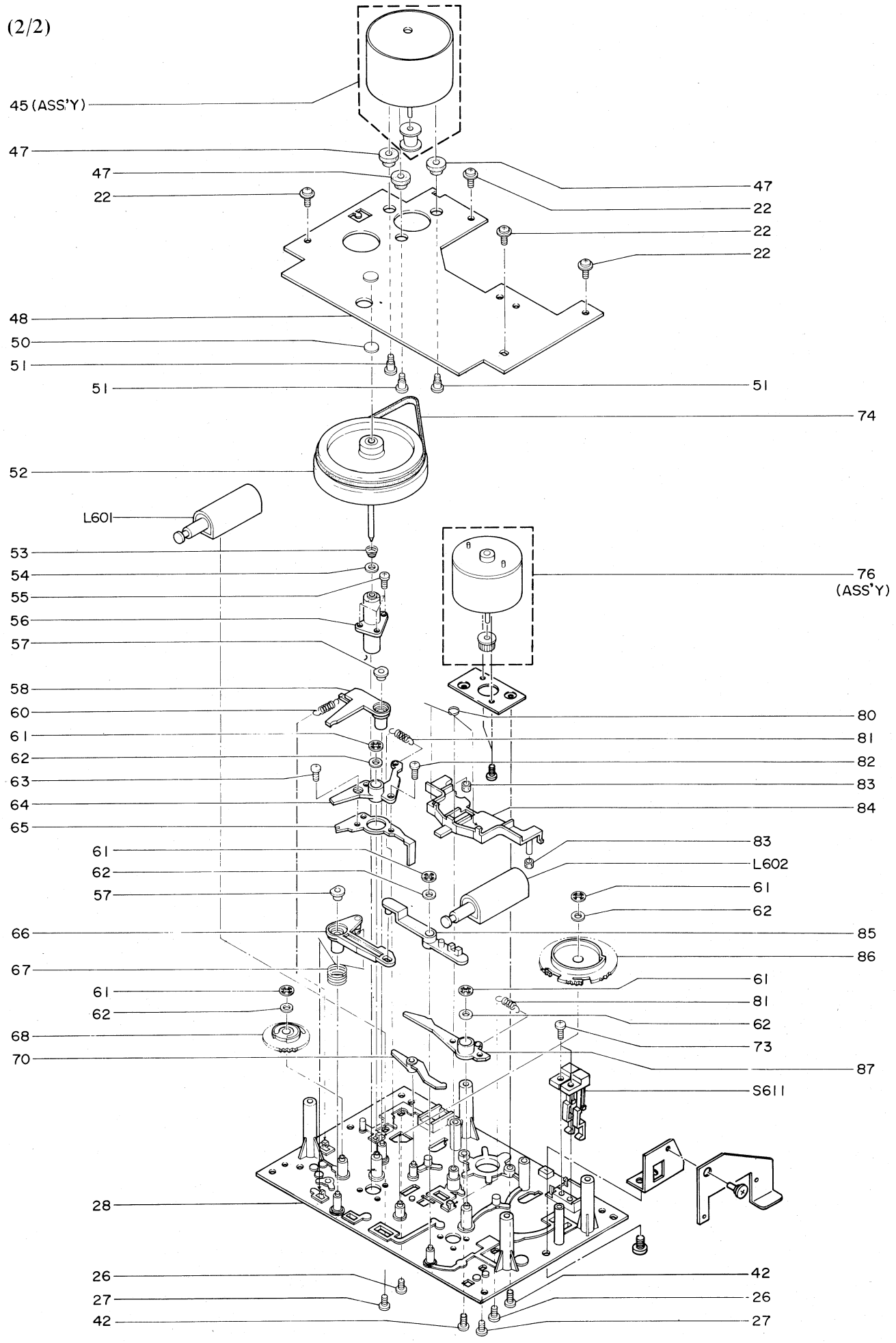
Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF. NO.	PARTS NO.	DESCRIPTION
1	BF-711395	FLYWHEEL ASSY
2	BL-711389	PINCH ROLLER LEVER ASSY
3	BM-711391	MOTOR MAIN (W/PULLEY)
4	BM-711410	MOTOR REEL (W/PULLEY)
5	BT-709396	⚠ TRANS POWER FD-1 (U)
6	BT-711442	⚠ TRANS POWER FD-1 (C)
7	BT-711444	⚠ TRANS POWER FD-1 (S)
8	BT-709406	TRANS IFT AM-M-CE
9	BT-709407	TRANS IFT FM-D
10	EC-711437	C S-FIX
11	EC-749457	C S-FIX
12	EC-709431	C S-FIX R
13	ED-707776	⚠ D SILICON S1WB-10
14	ED-703290	⚠ D DIODE S2VB10
15	ED-709421	D LED AA5527S-1
16	ED-701131	D LED LN-317GP
17	ED-703243	D LED LN217RP
18	ED-709420	D LED LN29RP
19	ED-701124	D LED LN328GP
20	ED-709419	D LED LN410YP
21	ED-703310	D LED LN417YP
22	ED-709441	D LED SG238W
23	ED-306724	D SILICON S5277B 100/1.0A
24	ED-702236	D SILICON 1S1553V
25	ED-703195	D SILICON 1S1555V-TP3
26	ED-327098	D ZENER H WZ-061
27	ED-539976	D ZENER H WZ-130
28	ED-709426	D ZENER WZ042
29	ED-707934	D DIODE WZ048
30	EF-711445	⚠ FUSE 1.5A
31	EF-702200	⚠ FUSE 1S-T
32	EI-709399	IC AN7223
33	EI-213390	IC NJM4558D
34	EI-709422	IC NJM4562DD
35	EI-709427	IC TA7341P
36	EI-709247	IC TA7629P
37	EI-305456	IC TC409 UBC
38	EI-709428	IC TC9143P
39	EI-344436	IC TC9147P
40	EI-344437	IC TD6301AP
41	EI-709439	IC TL072-D
42	EI-702184	IC UPC1188H
43	EI-701061	IC UPC1197C
44	EJ-709432	JACK 6.5ST
45	EJ-702181	TERMINAL 4P
46	EJ-749374	JACK US6P
47	EM-709415	IND FL FIP7A8S
48	EO-741909	AF CHOKE COIL AC-3750
49	EO-711436	COIL ANT LW
50	EO-709405	COIL ANT MW
51	EO-709425	COIL CHOKE AF 12MH
52	EO-702240	COIL CHOKE AF 4.70MH
53	EO-709404	COIL CHOKE 221
54	EO-742246	COIL FM-CHOKE
55	EO-709409	COIL MPX
56	EO-709430	COIL OSC AF
57	EO-711435	COIL OSC MW
58	EO-709414	OSC X'TAL
59	EP-711418	SOLENOID PLAY
60	ER-749371	⚠ R FUSE 1/4W R22
61	ER-749372	⚠ R FUSE 1/4W R47
62	ER-704152	⚠ R FUSE 1/4W 220J
63	ER-709408	FILTER CE
64	ER-709423	FILTER DOLBY
65	ER-711438	R COMP 153 7P
66	ER-711439	R COMP 183 7P
67	ER-711440	R COMP 223 7P
68	ES-709398	⚠ SW SLIDE
69	ES-711419	SW CASSETTE
70	ES-709418	SW KEY
71	ES-709416	SW PUSH
72	ES-709417	SW PUSH
73	ES-709440	SW PUSH
74	ES-709433	SW PUSH 4 THROW
75	ES-709438	SW PUSH 4 THROW
76	ES-709444	SW SLIDE
77	ES-709453	SW SLIDE
78	ET-741953	⚠ TR 2SD325-E
79	ET-336864	TR FET 2SK223 F
80	ET-337759	TR FET 2SK246 GR
81	ET-337604	TR FET 2SK246 Y
82	ET-741903	TR 2SA1015-GR
83	ET-328861	TR 2SA562TM O,Y
84	ET-306720	TR 2SA966 O,Y
85	ET-741941	TR 2SC1627A-Y
86	ET-330225	TR 2SC1815 BL
87	ET-325482	TR 2SC1959 Y
88	ET-711433	TR 2SC2236Y
89	ET-702700	TR 2SC380TM O
90	ET-709429	TR 2SD1140
91	ET-338565	TR 2SD1302 R,S
92	ET-709400	TR 2SK192A-Y
93	EV-703298	R S-FIX 103
94	EV-706603	R S-FIX 103
95	EV-703279	R S-FIX 503
96	EV-703299	SEMI-FIXED/VOL. 500 OHMS
97	EV-709434	VR SLIDE 60B-204-D
98	EV-709436	VR SLIDE 45W 204
99	HE-711380	HEAD E
100	HP-711381	HEAD R/P
101	MB-709443	BELT COUNTER
102	MB-711409	BELT MAIN MOTOR
103	MT-711377	REEL DRUM
104	MV-711398	CAPSTAN METAL CASE
105	ZG-711390	SP PINCH ROLLER LEVER

MECHA BLOCK (1/2)



(2/2)



1. MECHA BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-1	BB-711481	MECHA BLK MU-601FT
	MECHA BLOCK (1/2)	
1-2	ZW-711373	WASHER
1-3	MT-711374	CAP REEL
1-4	MT-711375	COLLAR REEL
1-5	ZG-711376	SP REEL
1-6	MT-711377	REEL DRUM
1-7	ZS-711378	SCREW
1-8	ZS-711379	SCREW
1-9	HE-711380	HEAD E
1-10	HP-711381	HEAD R/P
1-11	ZG-703359	SP HEAD
1-12	MV-711382	BALL
1-13	HA-711383	HEAD BASE
1-14	ZG-711384	SP HEAD CHASSIS
1-16	ZG-711385	SP ERASE LEVER
1-17	ML-711386	LEVER ERASE ASSY
1-30	MB-709443	BELT COUNTER
1-33	ZW-711388	E RING
1-34	BL-711389	PINCH ROLLER LEVER ASSY
1-35	ZG-711390	SP PINCH ROLLER LEVER
	MECHA BLOCK (2/2)	
1-45	BM-711391	MOTOR MAIN (W/PULLEY)
1-47	MB-711392	CUSHION MOTOR
1-50	ZW-711393	THRUST WASHER
1-51	ZS-711394	SCREW SPL (MOTOR)
1-52	BF-711395	FLYWHEEL ASSY
1-53	ZG-711396	SP FLYWHEEL
1-54	ZW-711397	WASHER FLYWHEEL
1-56	MV-711398	CAPSTAN METAL CASE
1-57	MZ-711399	BUSH
1-58	ML-711400	LEVER LOCK PAUSE
1-60	ZG-711401	SP LOCK LEVER
1-61	ZW-711402	RING
1-64	ML-711403	LEVER PAUSE
1-66	ML-711404	LEVER LOCK PLAY
1-67	ZG-711405	SP LOCK LEVER
1-68	MZ-711406	CAM GEAR PAUSE
1-70	ML-711407	LEVER BRAKE
1-74	MB-711409	BELT MAIN MOTOR
1-76	BM-711410	MOTOR REEL (W/PULLEY)
1-80	ZG-711411	SP BRAKE SLIDER
1-81	ZG-711412	SP PLAY LEVER
1-83	MB-711413	CUSHION BRAKE SLIDER
1-84	MZ-711414	BRAKE SLIDER
1-85	ML-711415	LEVER SOLENOID
1-86	MZ-711416	CAM GEAR PLAY
1-87	ML-711417	LEVER PLAY
1-L601	EP-711418	SOLENOID PLAY
1-L602	EP-711418	SOLENOID PLAY
1-S611	ES-711419	SW CASSETTE
1-89x	MC-709442	COUNTER

Note

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

2. AF P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-1U	BA-749453	PC AF BLK FD-1(U,E)
2-1C	BA-749454	PC AF BLK FD-1(C,A)
2-1S	BA-749455	PC AF BLK FD-1(S)
	AF P.C BOARD	
2-IC301	EI-709422	IC NJM4562DD
2-IC303	EI-709247	IC TA7629P
2-IC304	EI-709247	IC TA7629P
2-IC451	EI-709439	IC TL072-D
2-IC501	EI-702184	IC UPC1188H
2-IC502	EI-702184	IC UPC1188H
2-TR001	ET-741953	⚠ TR 2SD325-E
2-TR002	ET-741953	TR 2SD325-E
2-TR301	ET-336864	TR FET 2SK223 F
2-TR302	ET-336864	TR FET 2SK223 F
2-TR303	ET-330225	TR 2SC1815 BL
2-TR304	ET-330225	TR 2SC1815 BL
2-TR305	ET-337759	TR FET 2SK246 GR
2-TR306	ET-337759	TR FET 2SK246 GR
2-TR307	ET-337759	TR FET 2SK246 GR
2-TR308	ET-337759	TR FET 2SK246 GR
2-TR309	ET-337759	TR FET 2SK246 GR
2-TR310	ET-337759	TR FET 2SK246 GR
2-TR311	ET-330225	TR 2SC1815 BL
2-TR312	ET-330225	TR 2SC1815 BL
2-TR313	ET-330225	TR 2SC1815 BL
2-TR314	ET-330225	TR 2SC1815 BL
2-TR315	ET-338565	TR 2SD1302 R,S
2-TR316	ET-338565	TR 2SD1302 R,S
2-TR317	ET-330225	TR 2SC1815 BL
2-TR318	ET-330225	TR2SC1815 BL
2-TR319	ET-330225	TR 2SC1815 BL
2-TR320	ET-330225	TR 2SC1815 BL
2-TR321	ET-330225	TR 2SC1815 BL
2-TR322	ET-330225	TR 2SC1815 BL
2-TR323	ET-338565	TR 2SD1302 R,S
2-TR324	ET-338565	TR 2SD1302 R,S
2-TR325	ET-337759	TR FET 2SK246 GR
2-TR326	ET-337759	TR FET 2SK246 GR
2-TR327	ET-330225	TR 2SC1815 BL
2-TR481	ET-330225	TR 2SC1815 BL
2-TR501	ET-330225	TR 2SC1815 BL
2-TR701	ET-741941	TR 2SC1627A-Y
2-TR702	ET-706720	TR 2SA966 O,Y
2-TR703	ET-330225	TR 2SC1815 BL
2-D001	ED-703290	⚠ D DIODE S2VB10
2-D002	ED-707776	⚠ D SILICON S1WB-10
2-D003	ED-709441	D LED SG238W
2-D005	ED-310578	D ZENER H WZ-177
2-D006	ED-539976	D ZENER H WZ-130
2-D007	ED-707934	D DIODE WZ048
2-D301	ED-702195	D SILICON 1S1555V-TP3
2-D302	ED-702195	D SILICON 1S1555V-TP3
2-D303	ED-702195	D SILICON 1S1555V-TP3
2-D305	ED-702195	D SILICON 1S1555V-TP3
2-D306	ED-702195	D SILICON 1S1555V-TP3
2-D307	ED-702195	D SILICON 1S1555V-TP3
2-D308	ED-702195	D SILICON 1S1555V-TP3
2-D309	ED-702195	D SILICON 1S1555V-TP3
2-D310	ED-702195	D SILICON 1S1555V-TP3
2-D311	ED-702195	D SILICON 1S1555V-TP3
2-D312	ED-709426	D ZENER WZ042
2-D313	ED-709426	D ZENER WZ042
2-D455	ED-702195	D SILICON 1S1555V-TP3
2-D456	ED-702195	D SILICON 1S1555V-TP3
2-D481	ED-702195	D SILICON 1S1555V-TP3
2-D482	ED-702195	D SILICON 1S1555V-TP3
2-D702	ED-702236	D SILICON 1S1553V
2-D703	ED-702236	D SILICON 1S1553V
2-D704	ED-702236	D SILICON 1S1553V
2-S26	ES-709433	SW PUSH 4 THROW
2-S27	ES-709438	SW PUSH 4 THROW
2-VR301	EV-703279	R S-FIX 503
2-VR302	EV-703279	R S-FIX 503
2-VR303	EV-703298	R S-FIX 103
2-VR304	EV-703298	R S-FIX 103
2-L301	ER-709423	FILTER DOLBY
2-L302	ER-709423	FILTER DOLBY
2-L303	EO-709425	COIL CHOKE AF 12MH
2-L304	EO-709425	COIL CHOKE AF 12MH
2-L305	EO-702240	COIL CHOKE AF 4.70MH
2-L306	EO-702240	COIL CHOKE AF 4.70MH
2-L701	EO-709430	COIL OSC AF
2-CT701	EC-709431	C S-FIX R
2-CT702	EC-709431	C S-FIX R
2-R001	ER-749370	R CT 10M 560K
2-R002	ER-749371	⚠ R FUSE 1/4W R22
2-R005	ER-324670	R OMF H SNP FS 2W 102J
2-R006	ER-305722	R OMF H SNP FS 2W 221J
2-R007	ER-333120	R OMF H SNP FS 2W 561J
2-R008	ER-333120	R OMF H SNP FS 2W 561J
2-R010	ER-749372	⚠ R FUSE 1/4W R47
2-R011	ER-749372	⚠ R FUSE 1/4W R47
2-R012	ER-749373	R OMF H FS 3W 150
2-R013	ER-336841	R OMF H SNP FS 1W 332J
2-R380	ER-704791	R FUSE 1/4W 470J
2-R511	ER-704154	R OMF FS 1W 100J
2-R512	ER-704154	R OMF FS 1W 100J
2-R553	ER-331618	R OMF H SNP FS 1W 561J
2-R710	ER-704152	⚠ R FUSE 1/4W 220J
2-R839	ER-333085	R OMF H SNP FS 2W 330J
2-R849	ER-329070	R OMF H SNP FS 2W 181J
2-R854	ER-658034	R OMF H FS 2W 221J
2-R857	ER-321192	R OMF H SNP FS 2W 101J
2-C003	EC-710377	C EC V 472M 30.0DC
2-C004	EC-710377	C EC V 472M 30.0DC
2-C005	EC-710378	C EC V 222M 25.0DC
2-VR452	EV-709434	VR SLIDE 60B-204-D
	LOGIC P.C BOARD	
2-IC801	EI-709428	IC TC9143P
2-IC802	EI-305456	IC TC4049UBC
2-IC803	EI-709427	IC TA7341P
2-TR801	ET-330225	TR 2SC1815 BL
2-TR802	ET-741903	TR 2SA1015-GR
2-TR803	ET-741903	TR 2SA1015-GR
2-TR804	ET-330225	TR 2SC1815 BL
2-TR805	ET-328861	TR 2SA562TM O,Y
2-TR806	ET-328861	TR 2SA562TM O,Y
2-TR807	ET-325482	TR 2SC1959 Y
2-TR808	ET-325482	TR 2SC1959 Y
2-TR809	ET-325482	TR 2SC1959 Y
2-TR810	ET-325482	TR 2SC1959 Y
2-TR811	ET-325482	TR 2SC1959 Y
2-TR812	ET-325482	TR 2SC1959 Y
2-TR813	ET-709429	TR 2SD1140
2-TR814	ET-325482	TR 2SC1959 Y
2-TR815	ET-709429	TR 2SD1140
2-TR816	ET-703397	TR 2SA1015 Y
2-TR817	ET-330225	TR 2SC1815 BL
2-D801	ED-702195	D SILICON 1S1555V-TP3
2-D802	ED-702195	D SILICON 1S1555V-TP3
2-D803	ED-702195	D SILICON 1S1555V-TP3
2-D804	ED-702195	D SILICON 1S1555V-TP3
2-D805	ED-702195	D SILICON 1S1555V-TP3
2-D806	ED-702195	D SILICON 1S1555V-TP3
2-D807	ED-702195	D SILIOCN 1S1555V-TP3
2-D808	ED-702195	D SILICON 1S1555V-TP3
2-D809	ED-702195	D SILICON 1S1555V-TP3
2-D810	ED-702195	D SILICON 1S1555V-TP3
2-D811	ED-702195	D SILICON 1S1555V-TP3
2-D812	ED-702195	D SILICON 1S1555V-TP3
2-D813	ED-702195	D SILICON 1S1555V-TP3
2-D814	ED-702195	D SILICON 1S1555V-TP3
2-D815	ED-702195	D SILICON 1S1555V-TP3
2-D816	ED-702195	D SILICON 1S1555V-TP3
2-D817	ED-702195	D SILICON 1S1555V-TP3
2-D818	ED-702195	D SILICON 1S1555V-TP3
2-D819	ED-702195	D SILICON 1S1555V-TP3
2-D820	ED-306724	D SILICON S5277B 100/1.0A
2-D821	ED-306724	D SILICON S5277B 100/1.0A
2-D822	ED-322809	D ZENER H WZ-081
2-D826	ED-702195	D SILICON 1S1555V-TP3
2-D827	ED-702195	D SILICON 1S1555V-TP3
2-D828	ED-702195	D SILICON 1S1555V-TP3
2-D829	ED-702195	D SILICON 1S1555V-TP3
2-D830	ED-702195	D SILICON 1S1555V-TP3

REF. NO.	PARTS NO.	DESCRIPTION
	MIC P.C BOARD	
2-IC481	EI-213390	IC NJM4558D
2-J2	EJ-709432	JACK 6.5ST
	SW P.C BOARD (A)	
2-S25	ES-709453	SW SLIDE
	SW P.C BOARD (B)	
2-S28	ES-709440	SW PUSH
2-D004	ED-310578	D ZENER H WZ-177
2-R003	ER-324670	R OMF H SNP FS 2W 102J
	HEAD PHONE P.C BOARD	
2-J3	EJ-709432	JACK 6.5ST
2-R513	ER-306961	R OMF H SNP FS 2W 151J
2-R514	ER-306961	R OMF H SNP FS 2W 151J
	BALANCE P.C BOARD	
2-VR451	EV-709436	VR SLIDE 45W 204
	JACK P.C BOARD	
2-J1	EJ-749374	JACK US6P
	SP P.C BOARD	
2-J4	EJ-702181	TERMINAL 4P

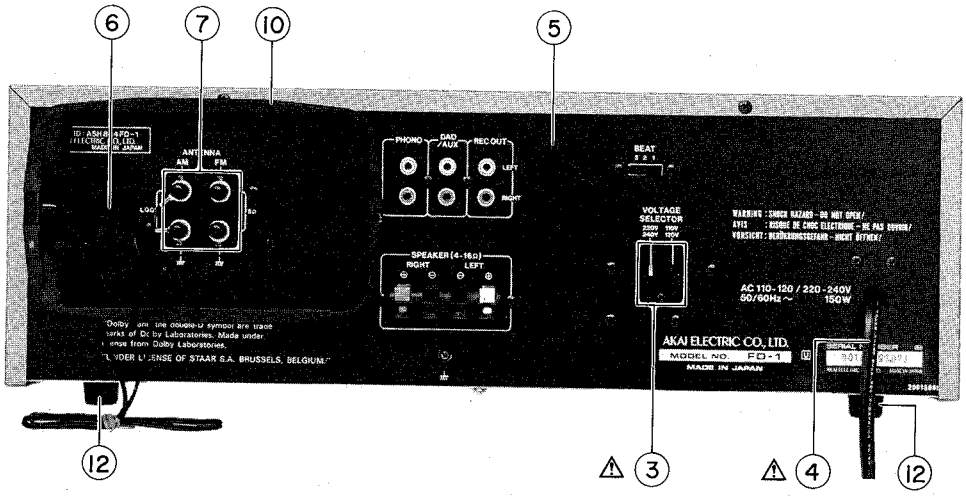
3. RADIO P.C BOARD BLOCK

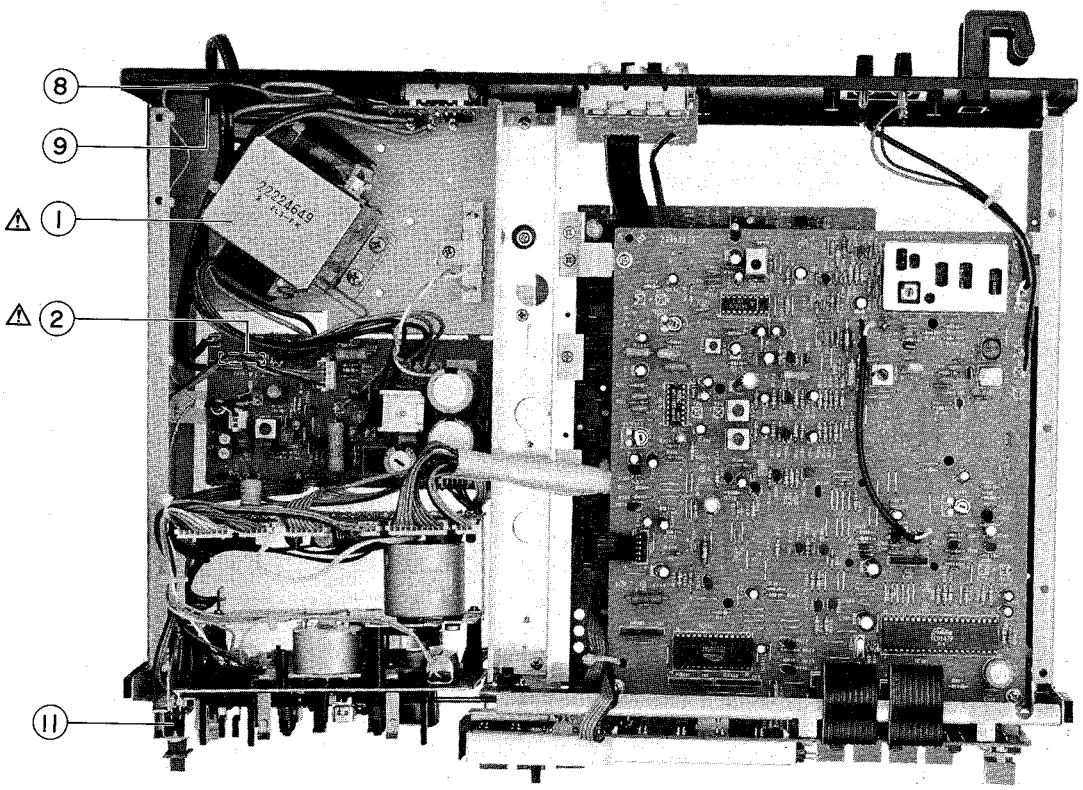
REF. NO.	PARTS NO.	DESCRIPTION
3-1U	BA-711430	PC RADIO BLK FD-1 (U,E,S)
3-1C	BA-711431	PC RADIO BLK FD-1 (C,A)
	RADIO P.C BOARD	
3-IC201	EI-709399	IC AN7223
3-IC202	EI-701061	IC UPC1197C
3-IC601	EI-344436	IC TC9147P
3-IC602	EI-344437	IC TD6301AP
3-IC603	EI-344438	IC TD6104P
3-TR101	ET-709400	TR 2SK192A-Y
3-TR201	ET-702700	TR 2SC380TM O
3-TR202	ET-330225	TR 2SC1815 BL
3-TR203	ET-330225	TR 2SC1815 BL
3-TR204	ET-330225	TR 2SC1815 BL
3-TR205	ET-330225	TR 2SC1815 BL
3-TR206	ET-330225	TR 2SC1815 BL
3-TR207	ET-741903	TR 2SA1015-GR
3-TR208	ET-741903	TR 2SA1015-GR
3-TR209	ET-330225	TR 2SC1815 BL
3-TR210	ET-330225	TR 2SC1815 BL
3-TR211	ET-711433	TR 2SC2236Y
3-TR212	ET-741902	TR 2SC1815-BL
3-TR213	ET-702700	TR 2SC380TM O
3-TR601	ET-330225	TR 2SC1815 BL
3-TR602	ET-337604	TR FET 2SK246 Y
3-TR603	ET-330225	TR 2SC1815 BL
3-TR604	ET-330225	TR 2SC1815 BL
3-TR605	ET-308867	TR 2SA1015 O,Y,GR
3-TR606	ET-308867	TR 2SA1015 O,Y,GR
3-TR607	ET-702700	TR 2SC380TM O
3-TR608	ET-308867	TR 2SA1015 O,Y,GR
3-TR609	ET-308867	TR 2SA1015 O,Y,GR
3-TR610	ET-330225	TR 2SC1815 BL
3-D101	ED-709401	D VARACTOR KV1236Z2
3-D201	ED-702195	D SILICON 1S1555V-TP3
3-D202	ED-709441	D LED SG238W
3-D203	ED-327098	D ZENER H WZ-061
3-D206	ED-702195	D SILICON 1S1555V-TP3
3-D207	ED-702195	D SILICON 1S1555V-TP3
3-D208	ED-702195	D SILICON 1S1555V-TP3
3-D601	ED-702195	D SILICON 1S1555V-TP3
3-D602	ED-306724	D SILICON S5277B 100/1.0A
3-D603	ED-306724	D SILICON S5277B 100/1.0A
3-D604	ED-702195	D SILICON 1S1555V-TP3
3-D605	ED-702195	D SILICON 1S1555V-TP3
3-L102	EO-742246	COIL FM-CHOKE
3-L103	EO-741909	AF CHOKE COIL AC-3750
3-L104	EO-709404	COIL CHOKE 221
3-L105	EO-709405	COIL ANT MW
3-L106	EO-711435	COIL OSC MW
3-L201	EO-741909	AF CHOKE COIL AC-3750
3-LC201	EO-709409	COIL MPX
3-LC202	EO-709409	COIL MPX
3-IT201	BT-709406	TRANS IFT AM-M-CE
3-IT202	BT-709407	TRANS IFT FM-D
3-CF201	ER-709408	FILTER CE
3-CF202	ER-709408	FILTER CE
3-TC1	EC-749457	C S-FIX
3-VR201	EV-706603	R S-FIX 103
3-VR202	EV-703299	SEMI-FIXED/VOL. 500 OHMS
3-VR601	EV-703299	SEMI-FIXED/VOL. 500 OHMS
3-X1	EO-709414	OSC X'TAL
3-FL1	EM-709415	IND FL FIP7A8S
3-R101	ER-706608	R OMF 1W 331
3-R220	ER-706608	R OMF 1W 331
3-R230	ER-701107	R OMF 1W 151J
3-R259	ER-704152	⚠ R FUSE 1/4W 220J
3-R269	ER-704152	⚠ R FUSE 1/4W 220J
3-R601	ER-711438	R COMP 153 7P
3-R602	ER-711439	R COMP 183 7P
3-R603	ER-711440	R COMP 223 7P
3-R632	ER-306961	R OMF H SNP FS 2W 151J
3-2	EE-709403	FM TUNER

4. CONTROL P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
4-S1	ES-709418	SW KEY
4-S2	ES-709418	SW KEY
4-S3	ES-709418	SW KEY
4-S4	ES-709418	SW KEY
4-S5	ES-709418	SW KEY
4-S6	ES-709418	SW KEY
4-S7	ES-709418	SW KEY
4-S8	ES-709418	SW KEY
4-S10	ES-709418	SW KEY
4-S11	ES-709418	SW KEY
4-S12	ES-709418	SW KEY
4-S13	ES-709418	SE KEY
4-S14	ES-709418	SW KEY
4-S15	ES-709418	SW KEY
4-S16	ES-709418	SW KEY
4-S17	ES-709418	SE KEY
4-S18	ES-709418	SW KEY
4-S19	ES-709418	SW KEY
4-S20	ES-709418	SW KEY
4-S21	ES-709417	SW PUSH
4-S22	ES-709417	SW PUSH
4-S23	ES-709416	SW PUSH
4-D204	ED-703310	D LED LN417YP
4-D205	ED-703310	D LED LN417YP
4-D304	ED-701131	D LED LN-317GP
4-D451	ED-709421	D LED AA5527S-1
4-D452	ED-709421	D LED AA5527S-1
4-D453	ED-709421	D LED AA5527S-1
4-D454	ED-709421	D LED AA5527S-1
4-D606	ED-703243	D LED LN217RP
4-D607	ED-709421	D LED AA5527S-1
4-D608	ED-709421	D LED AA5527S-1
4-D609	ED-709421	D LED AA5527S-1
4-D610	ED-709421	D LED AA5527S-1
4-D611	ED-709421	D LED AA5527S-1
4-D612	ED-709421	D LED AA5527S-1
4-D613	ED-709421	D LED AA5527S-1
4-D614	ED-709421	D LED AA5527S-1
4-D704	ED-701131	D LED LN-317GP
4-D705	ED-701131	D LED LN-317GP
4-D706	ED-701131	D LED LN-317GP
4-D823	ED-701124	D LED LN328GP
4-D824	ED-709420	D LED LN29RP
4-D825	ED-709419	D LED LN410YP
4-R708	ER-749298	RS1M-120
4-R709	ER-329279	R OMF H FS 1W 271J

ASSEMBLY BLOCK

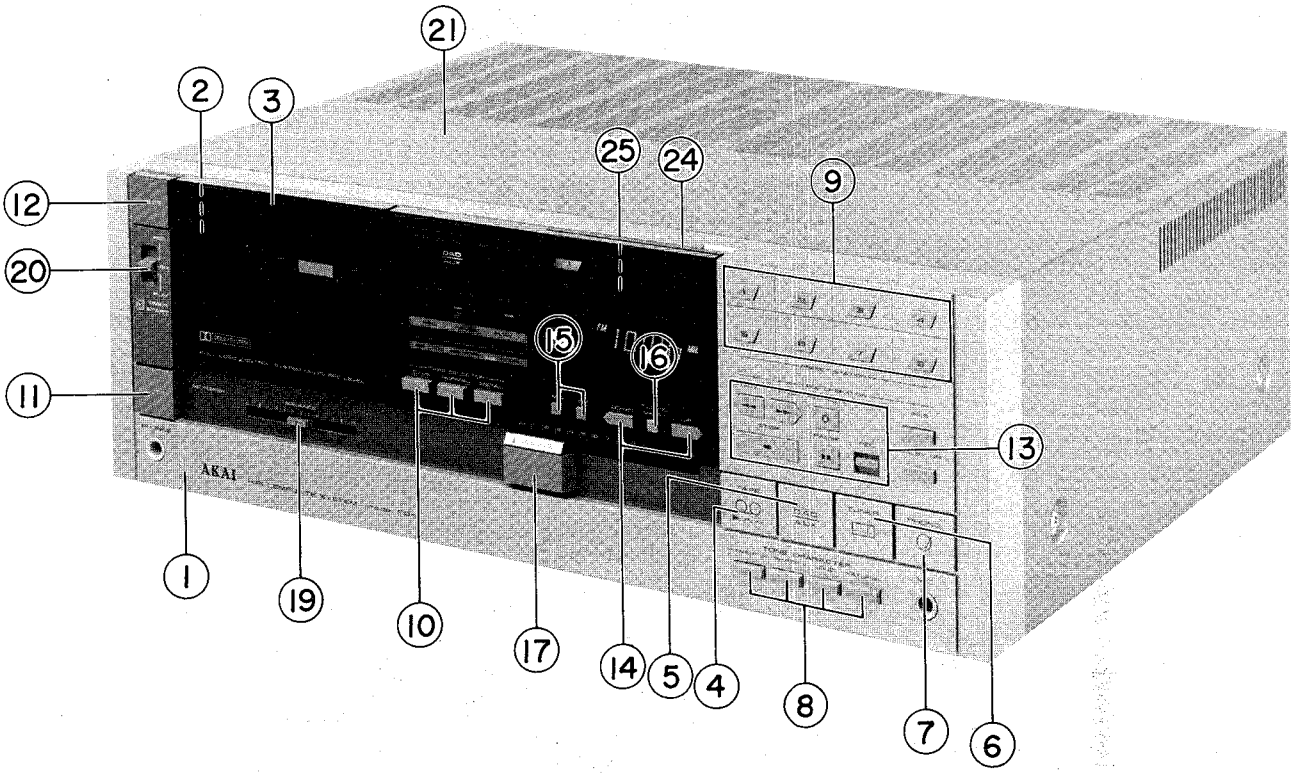




5. ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
5-1U	BT-709396	⚠ TRANS POWER FD-1 (U)
5-1C	BT-711442	⚠ TRANS POWER FD-1 (C,A)
5-1E	BT-711443	⚠ TRANS POWER FD-1 (E)
5-1S	BT-711444	⚠ TRANS POWER FD-1 (S,B)
5-2U	EF-702200	⚠ FUSE 1S-T (U,E,S)
5-2C	EF-711445	⚠ FUSE 1.5A (C,A)
5-3	ES-709398	⚠ SW SLIDE (U ONLY)
5-4U	EW-343363	⚠ AC CORD 2 CORES KP-8, SPT-2 UC (U,C,A)
5-4E	EW-313882	⚠ AC CORD 2 CORES KP-419C, LTCE-2F E (E)
5-4S	EW-201515	⚠ AC CORD 2 CORES KP-560, LTSA-2F S (S)
5-5U	SP-711424	PANEL REAR FD-1 (U)
5-5C	SP-711425	PANEL REAR FD-1 (C,A)
5-5E	SP-711426	PANEL REAR FD-1 (E)
5-5S	SP-711427	PANEL REAR FD-1 (S)
5-6	SZ-710453	HOLDER ANT
5-7	EJ-710451	TERMINAL SCREW 4P
5-8	SZ-710448	HOLDER CODE
5-9	SZ-710449	HOLDER CODE
5-10	EE-709445	ANT LOOP
5-11	ES-709444	SW SLIDE (S24)
5-12	SA-711361	RUBBER FOOT

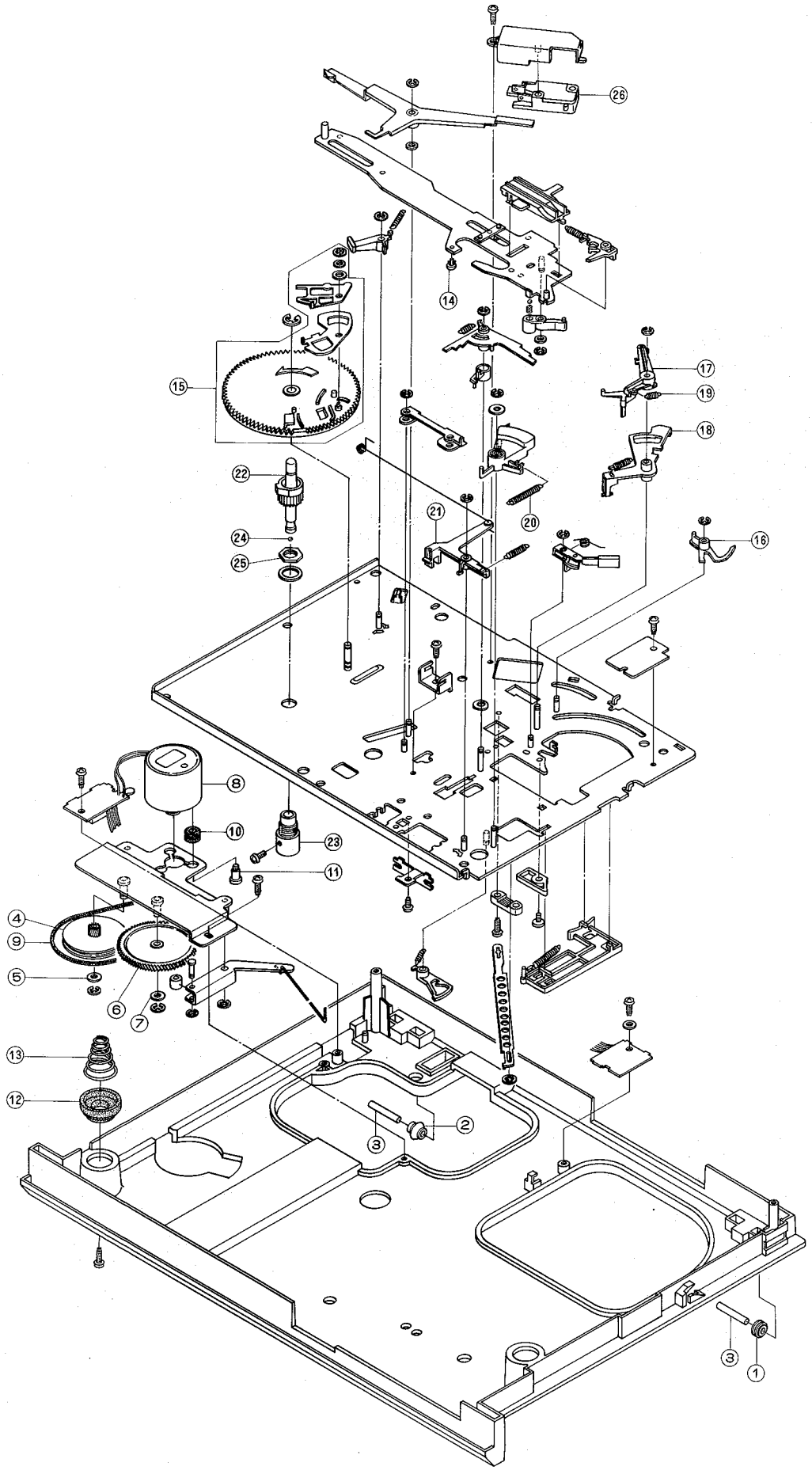
FINAL ASSEMBLY BLOCK



6. FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
6-1	BD-749451	PANEL FRONT BLK FD-1
6-2	TC-711341	HOLDER CASSETTE
6-3	SP-711342	LID COVER CASSETTE
6-4	SB-711343	BUTTON MODE (TAPE)
6-5	SB-711344	BUTTON MODE (DAD)
6-6	SB-711345	BUTTON MODE (TUNER)
6-7	SB-711346	BUTTON MODE (PHONO)
6-8	SB-711347	BUTTON SELECT
6-9	SB-711348	BUTTON PRESET ASSY
6-10	SB-711349	BUTTON SELECT-T
6-11	SB-711350	BUTTON POWER
6-12	SB-711351	BUTTON EJECT
6-13	SB-711352	BUTTON HOLDER ASSY
6-14	SB-711353	BUTTON TUNE
6-15	SB-711354	BUTTON B.M
6-16	SB-711355	BUTTON B.M
6-17	SK-711356	KNOB VOLUME ASSY
6-18x	SK-711357	SHAFT VOLUME KNOB
6-19	SK-711358	KNOB BALANCE
6-20	SK-711359	KNOB TIMER
6-21	SP-711360	COVER UPPER
6-22x	MZ-711362	DUMPER (FOR CASSETTE HOLDER)
6-23x	ZG-711363	SP EJECT (FOR CASSETTE HOLDER)
6-24	SZ-711366	HOLDER CARD
6-25	SZ-711367	FILTER LED
6-26x	TA-711371	SHEET STATION
6-27x	TA-711372	STATION CARDS

MECHA AND FA CHASSIS BLOCK



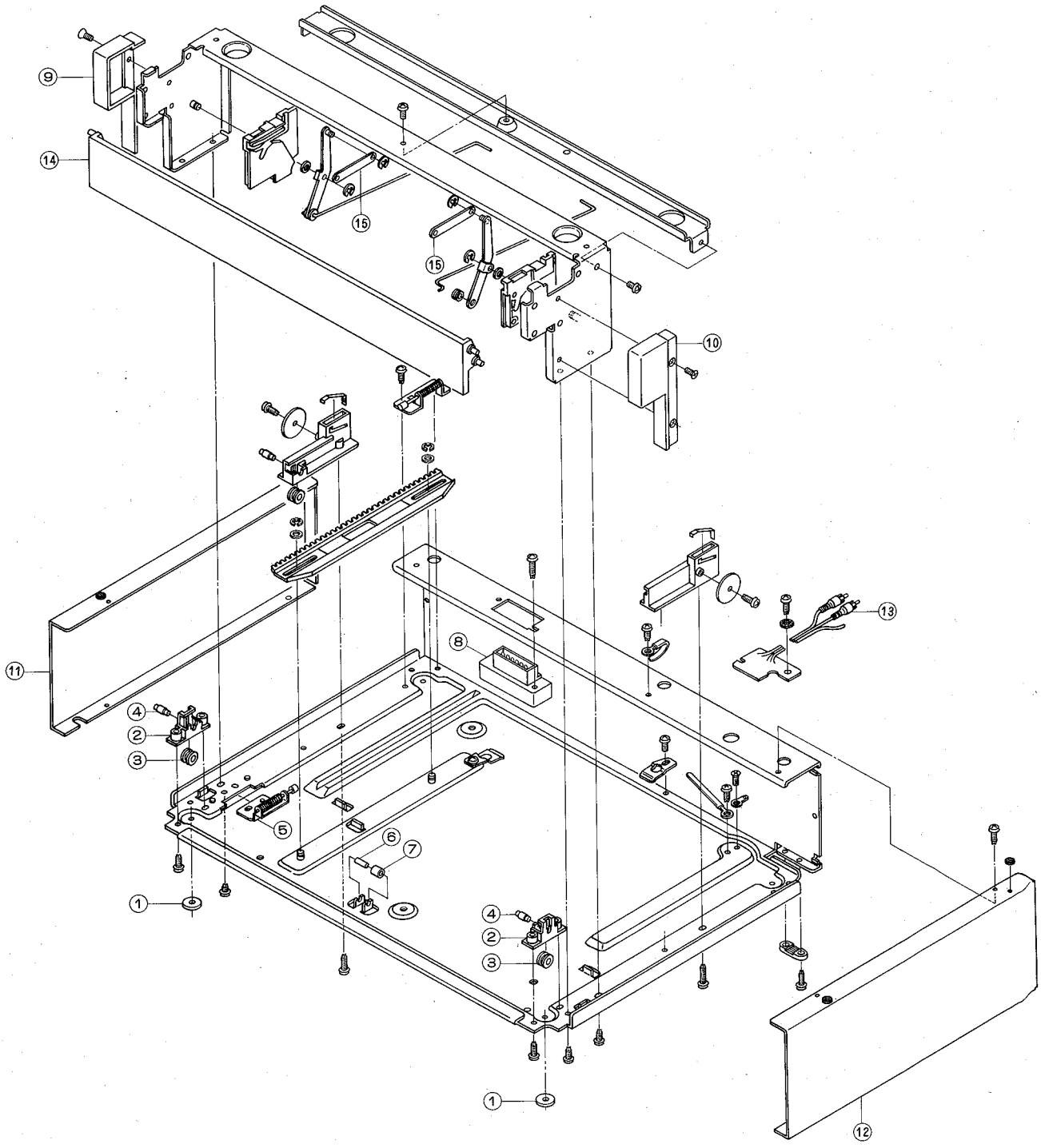
1. P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-1	ES-711327	SW PUSH 5THROW (SW1,2)
1-TR1	ET-701062	TR 2SD880 Y
1-D1	ED-308951	D ZENER WZ-120
1-D2	ED-306724	D SILICON S5277B 100/1.0A
1-VR1	EV-711331	R S-FIX 502
1-VR2	EV-711332	R S-FIX 103
1-D3	ED-711333	D LED GL-9PG34
1-D4	ED-711333	D LED GL-9PG34
1-SW3	ES-711334	SW SLIDE

2. MECHA AND FA CHASSIS BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-1	MR-711295	ROLLER
2-2	MR-711299	ROLLER B
2-3	MS-711300	SHAFT ROLLER B
2-4	MR-711301	GEAR PULLEY
2-5	ZW-269954	PW31x070x025PSL
2-6	MZ-711302	GEAR DRIVE
2-7	ZW-259738	PW41x070x025PSL
2-8	BM-711303	MOTOR NG (W/PULLEY) PART
2-9	MB-711304	BELT
2-10	MB-711285	CUSHION RUBBER
2-11	ZS-711305	SCREW SPL
2-12	MB-711282	CUSHION RUBBER
2-13	ZG-711283	SP PUSH
2-14	ZW-302909	RV NYL30x035 BL
2-15	TP-711313	GEAR MAIN ASSY
2-16	ML-711314	LINK SW
2-17	ML-711315	ARM MICRO SW
2-18	ML-711316	LEVER MICRO SW
2-19	ZG-711317	SP PULL
2-20	ZG-711318	SP 035TN30.5
2-21	ML-711319	LEVER START
2-22	TP-711320	SHAFT TT ASS
2-23	MV-711321	BEARING TT SHAFT
2-24	MV-711322	STEEL BELL 1/8
2-25	ZW-711323	NUT M11-2T
2-26	ES-711335	SW MICRO (SW4)

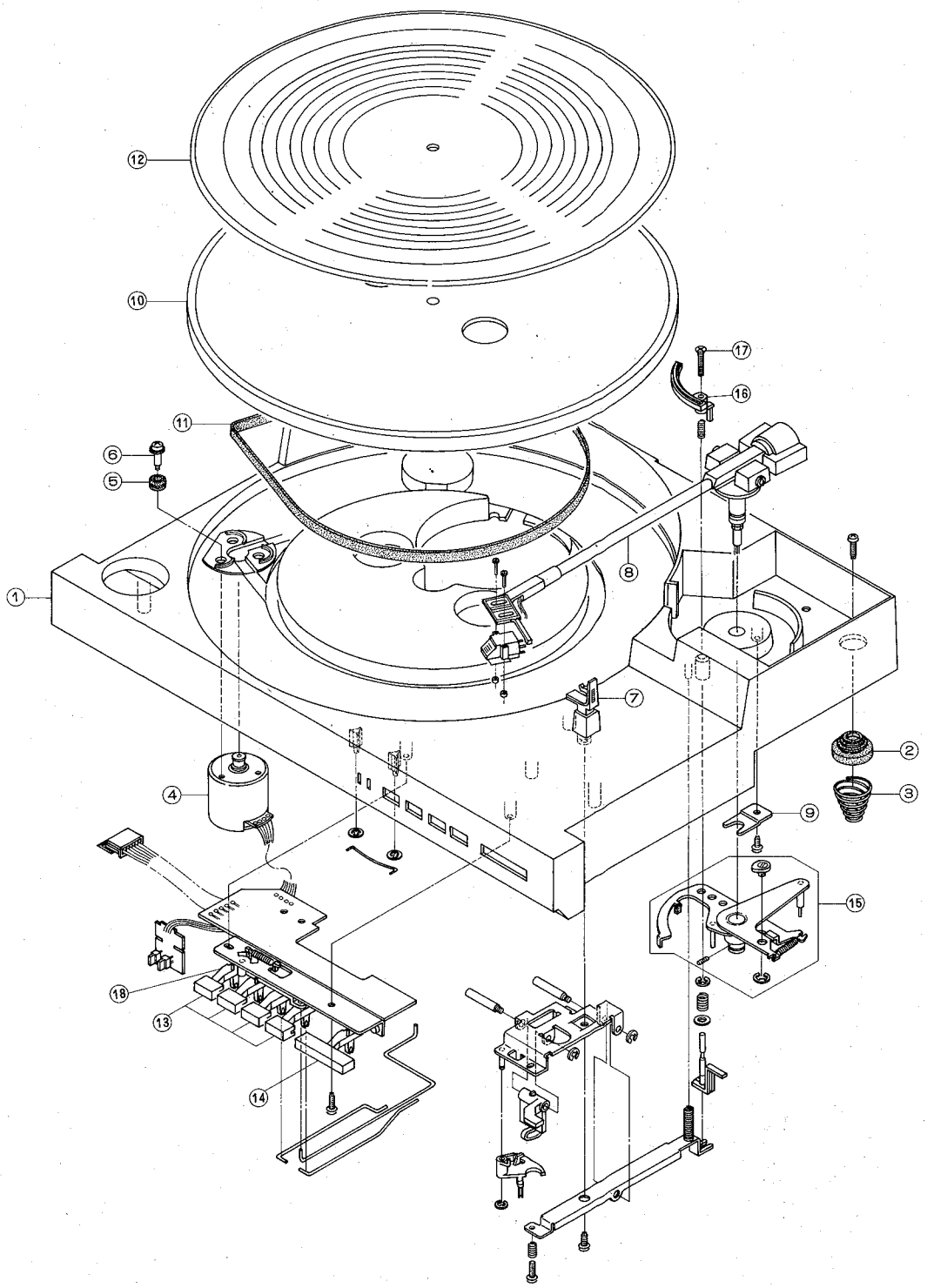
ASSEMBLY BLOCK



3. ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
3-1	SA-711293	FOOT
3-2	MZ-711294	HOLDER ROLLER
3-3	MR-711295	ROLLER
3-4	MS-711296	SHAFT ROLLER
3-5	TP-711297	STOPPER SW F ASSY
3-6	MS-711296	SHAFT ROLLER
3-7	MR-711298	ROLLER C
3-8	EJ-346330	PLUG POWER M1673 6P
3-9	SD-711308	DECOLATION-L
3-10	SD-711309	DECOLATION-R
3-11	SP-711310	COVER (L)
3-12	SP-711311	COVER (R)
3-13	EW-711312	AUDIO CODE US1P
3-14	SP-711329	FRONT COVER
3-15	ML-711330	JOINT

CABINET BLOCK



4. CABINET BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
4-1	BC-711281	CABINET
4-2	MB-711282	CUSHION RUBBER
4-3	ZG-711283	SP PUSH
4-4	BM-711284	MOTOR EG (W/PULLEY) PART
4-5	MB-711285	CUSHION RUBBER
4-6	ZS-711286	SCREW SPL
4-7	SD-711287	REST PU
4-8	TP-711288	ARM PU BLK
4-9	TP-711289	CLAMPER PU ARM
4-10	TP-711290	TURNTABLE
4-11	MB-711291	BELT
4-12	TP-711292	TABLE SHEET UL
4-13	SK-711306	BUTTON SELECT
4-14	SK-711307	BUTTON
4-15	TP-711324	PU PLATE ASSY
4-16	TP-711325	BAR LIFT
4-17	ZS-711326	FLT20x12BLK
4-18	SZ-711328	JOINT BUTTON

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PARTS NO.	REF. NO.	PARTS NO.	REF. NO.	PART NO.	REF. NO.	PARTS NO.	REF. NO.	PARTS NO.	REF. NO.
BA-711430	3-1U	ED-702195	3-D604	ER-331618	2-R553	ET-330225	2-TR481	MT-711375	1-4
BA-711431	3-1C	ED-702195	3-D605	ER-33085	2-R839	ET-330225	2-TR501	MT-711377	1-6
BA-749453	2-1U	ED-702236	2-D702	ER-333120	2-R007	ET-330225	2-TR703	MV-711382	1-12
BA-749454	2-1C	ED-702236	2-D703	ER-333120	2-R008	ET-330225	2-TR303	MV-711398	1-56
BA-749455	2-1S	ED-702236	2-D704	ER-336841	2-R013	ET-330225	2-TR304	MZ-711362	6-22X
BB-711481	1-1	ED-703243	4-D606	ER-658034	2-R854	ET-330225	2-RT801	MZ-711399	1-57
BD-749451	6-1	ED-703290	2-D001	ER-701107	3-R230	ET-330225	2-TR804	MZ-711406	1-68
BF-711395	1-52	ED-703310	4-D205	ER-704152	2-R710	ET-330225	2-TR311	MZ-711414	1-84
BL-711389	1-34	ED-703310	4-D204	ER-704152	3-R259	ET-330225	2-TR312	MZ-711416	1-86
BM-711391	1-45	ED-707776	2-D002	ER-704152	3-R269	ET-330225	2-TR817	SA-711361	5-12
BM-711410	1-76	ED-707934	2-D007	ER-704154	2-R511	ET-330225	3-TR202	SB-711343	6-4
BT-709396	5-1U	ED-709401	3-D101	ER-704154	2-R512	ET-330225	3-TR203	SB-711344	6-5
BT-709406	3-IT201	ED-709419	4-D825	ER-704791	2-R380	ET-330225	3-TR204	SB-711344	6-5
BT-709407	3-IT202	ED-709420	4-D824	ER-706608	3-R101	ET-330225	3-TR205	SB-711345	6-6
BT-711442	5-1C	ED-709421	4-D451	ER-706608	3-R220	ET-330225	3-TR206	SB-711346	6-7
BT-711443	5-1E	ED-709421	4-D452	ER-709408	3-CF201	ET-330225	3-TR209	SB-711347	6-8
BT-711444	5-1S	ED-709421	4-D453	ER-709408	3-CF202	ET-330225	3-TR210	SB-711348	6-9
EC-709431	2-CT701	ED-709421	4-D454	ER-709423	2-L301	ET-330225	3-TR601	SB-711349	6-10
EC-709431	2-CT702	ED-709421	4-D607	ER-709423	2-L302	ET-330225	3-TR603	SB-711350	6-11
EC-710377	2-C003	ED-709421	4-D608	ER-711438	3-R601	ET-330225	3-TR604	SB-711351	6-12
EC-710377	2-C004	ED-709421	4-D609	ER-711439	3-R602	ET-330225	3-TR610	SB-711352	6-13
EC-710378	2-C005	ED-709421	4-D610	ER-711440	3-R603	ET-336864	2-TR302	SB-711353	6-14
EC-749457	3-TC1	ED-709421	4-D611	ER-749298	4-R708	ET-336864	2-TR301	SB-711354	6-15
ED-306724	2-D820	ED-709421	4-D612	ER-749370	2-R001	ET-337604	3-TR602	SB-711355	6-16
ED-306724	2-D821	ED-709421	4-D613	ER-749371	2-R002	ET-337759	2-TR326	SK-711356	6-17
ED-306724	3-D602	ED-709421	4-D614	ER-749372	2-R010	ET-337759	2-TR325	SK-711357	6-18X
ED-306724	3-D603	ED-709426	2-D312	ER-749372	2-R011	ET-337759	2-TR306	SK-711358	6-19
ED-310578	2-D004	ED-709426	2-D313	ER-749373	2-R012	ET-337759	2-TR307	SK-711359	6-20
ED-310578	2-D005	ED-709441	2-D003	ES-709398	5-3	ET-337759	2-TR308	SP-711342	6-3
ED-322809	2-D822	ED-709441	3-D202	ES-709416	4-S23	ET-337759	2-TR310	SP-711360	6-21
ED-327098	3-D203	EE-709403	3-2	ES-709417	4-S21	ET-337759	2-TR309	SP-711424	5-5U
ED-539976	2-D006	EE-709445	5-10	ES-709417	4-S22	ET-337759	2-TR305	SP-711425	5-5C
ED-701124	4-D823	EF-702200	5-2U	ES-709418	4-S1	ET-338565	2-TR315	SP-711426	5-5E
ED-701131	4-D304	EF-711445	5-2C	ES-709418	4-S2	ET-338565	2-TR316	SP-711427	5-5S
ED-701131	4-D704	EI-213390	2-IC481	ES-709418	4-S3	ET-338565	2-TR323	SZ-710448	5-8
ED-701131	4-D705	EI-305456	2-IC802	ES-709418	4-S4	ET-338565	2-TR324	SZ-710449	5-9
ED-701131	4-D706	EI-344436	3-IC601	ES-709418	4-S5	ET-702700	3-TR201	SZ-710453	5-6
ED-702195	2-D803	EI-344437	3-IC602	ES-709418	4-S6	ET-702700	3-TR213	SZ-711366	6-24
ED-702195	2-D804	EI-344438	3-IC603	ES-709418	4-S7	ET-702700	3-TR607	SZ-711367	6-25
ED-702195	2-D805	EI-701061	3-IC202	ES-709418	4-S8	ET-703397	2-TR816	TA-711371	6-26X
ED-702195	2-D806	EI-702184	2-IC501	ES-709418	4-S10	ET-709400	3-TR101	TA-711372	6-27X
ED-702195	2-D807	EI-702184	2-IC502	ES-709418	4-S11	ET-709429	2-TR813	TC-711341	6-2
ED-702195	2-D808	EI-709247	2-IC303	ES-709418	4-S12	ET-709429	2-TR815	ZG-703359	1-11
ED-702195	2-D809	EI-709247	2-IC304	ES-709418	4-S13	ET-711433	3-TR211	ZG-711363	6-23X
ED-702195	2-D810	EI-709399	3-IC201	ES-709418	4-S14	ET-741902	3-TR212	ZG-711376	1-5
ED-702195	2-D811	EI-709422	2-IC301	ES-709418	4-S15	ET-741903	2-TR802	ZG-711384	1-14
ED-702195	2-D812	EI-709427	2-IC803	ES-709418	4-S16	ET-741903	2-TR803	ZG-711385	1-16
ED-702195	2-D813	EI-709428	2-IC801	ES-709418	4-S17	ET-741903	3-TR207	ZG-711390	1-35
ED-702195	2-D814	EI-709439	2-IC451	ES-709418	4-S18	ET-741903	3-TR208	ZG-711396	1-53
ED-702195	2-D815	EJ-702181	2-J4	ES-709418	4-S19	ET-741941	2-TR701	ZG-711401	1-60
ED-702195	2-D816	EJ-709432	2-J2	ES-709418	4-S20	ET-741953	2-TR001	ZG-711405	1-67
ED-702195	2-D817	EJ-709432	2-J3	ES-709433	2-S26	ET-741953	2-TR002	ZG-711411	1-80
ED-702195	2-D818	EJ-710451	5-7	ES-709438	2-S27	EV-703279	2-VR301	ZG-711412	1-81
ED-702195	2-D819	EJ-749374	2-J1	ES-709440	2-S28	EV-703279	2-VR302	ZS-709376	5-1U
ED-702195	2-D802	EM-709415	3-FL1	ES-709444	5-11	EV-703298	2-VR303	ZS-711378	1-7
ED-702195	2-D826	EO-702240	2-L306	ES-709453	2-S25	EV-703298	2-VR304	ZS-711379	1-8
ED-702195	2-D827	EO-702240	2-L305	ES-711419	1-S611	EV-703299	3-VR202	ZS-711394	1-51
ED-702195	2-D828	EO-709404	3-L104	ET-306720	2-TR702	EV-703299	3-VR601	ZW-711373	1-2
ED-702195	2-D829	EO-709405	3-L105	ET-308867	3-TR605	EV-706603	3-VR201	ZW-711388	1-33
ED-702195	2-D830	EO-709409	3-LC201	ET-308867	3-TR606	EV-709434	2-VR452	ZW-711393	1-50
ED-702195	2-D301	EO-709409	3-L202	ET-308867	3-TR608	EV-709436	2-VR451	ZW-711397	1-54
ED-702195	2-D302	EO-709414	3-X1	ET-308867	3-TR609	EW-201515	5-4S	ZW-711402	1-61
ED-702195	2-D303	EO-709425	2-L303	ET-325482	2-TR808	EW-313882	5-4E		
ED-702195	2-D305	EO-709425	2-L304	ET-325482	2-TR809	EW-343363	5-4U		
ED-702195	2-D306	EO-709430	2-L701	ET-325482	2-TR810	HA-711383	1-13		
ED-702195	2-D307	EO-711435	3-L106	ET-325482	2-TR811	HE-711380	1-9		
ED-702195	2-D308	EO-741909	3-L103	ET-325482	2-TR812	HP-711381	1-10		
ED-702195	2-D309	EO-741909	3-L201	ET-325482	2-TR807	MB-709443	1-30		
ED-702195	2-D310	EO-742246	3-L102	ET-325482	2-TR814	MB-711392	1-47		
ED-702195	2-D311	EP-711418	1-L602	ET-328861	2-TR805	MB-711409	1-74		
ED-702195	2-D455	EP-711418	1-L601	ET-328861	2-TR806	MB-711413	1-83		
ED-702195	2-D456	ER-305722	2-R006	ET-330225	2-TR313	MC-709442	1-89X		
ED-702195	2-D481	ER-306961	2-R513	ET-330225	2-TR314	ML-711386	1-17		
ED-702195	2-D482	ER-306961	2-R514	ET-330225	2-TR317	ML-711400	1-58		
ED-702195	2-D801	ER-306961	3-R632	ET-330225	2-TR318	ML-711403	1-64		
ED-702195	3-D201	ER-321192	2-R857	ET-330225	2-TR319	ML-711404	1-66		
ED-702195	3-D206	ER-324670	2-R003	ET-330225	2-TR320	ML-711407	1-70		
ED-702195	3-D207	ER-324670	2-R005	ET-330225	2-TR322	ML-711415	1-85		
ED-702195	3-D601	ER-329070	2-R849	ET-330225	2-TR321	ML-711417	1-87		
ED-702195	3-D208	ER-329279	4-R709	ET-330225	2-TR327	MT-711374	1-3		

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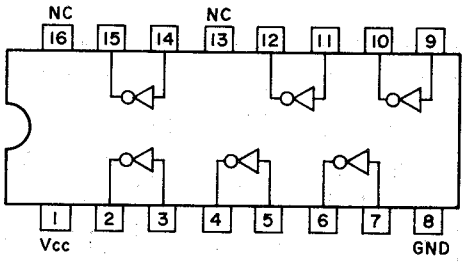
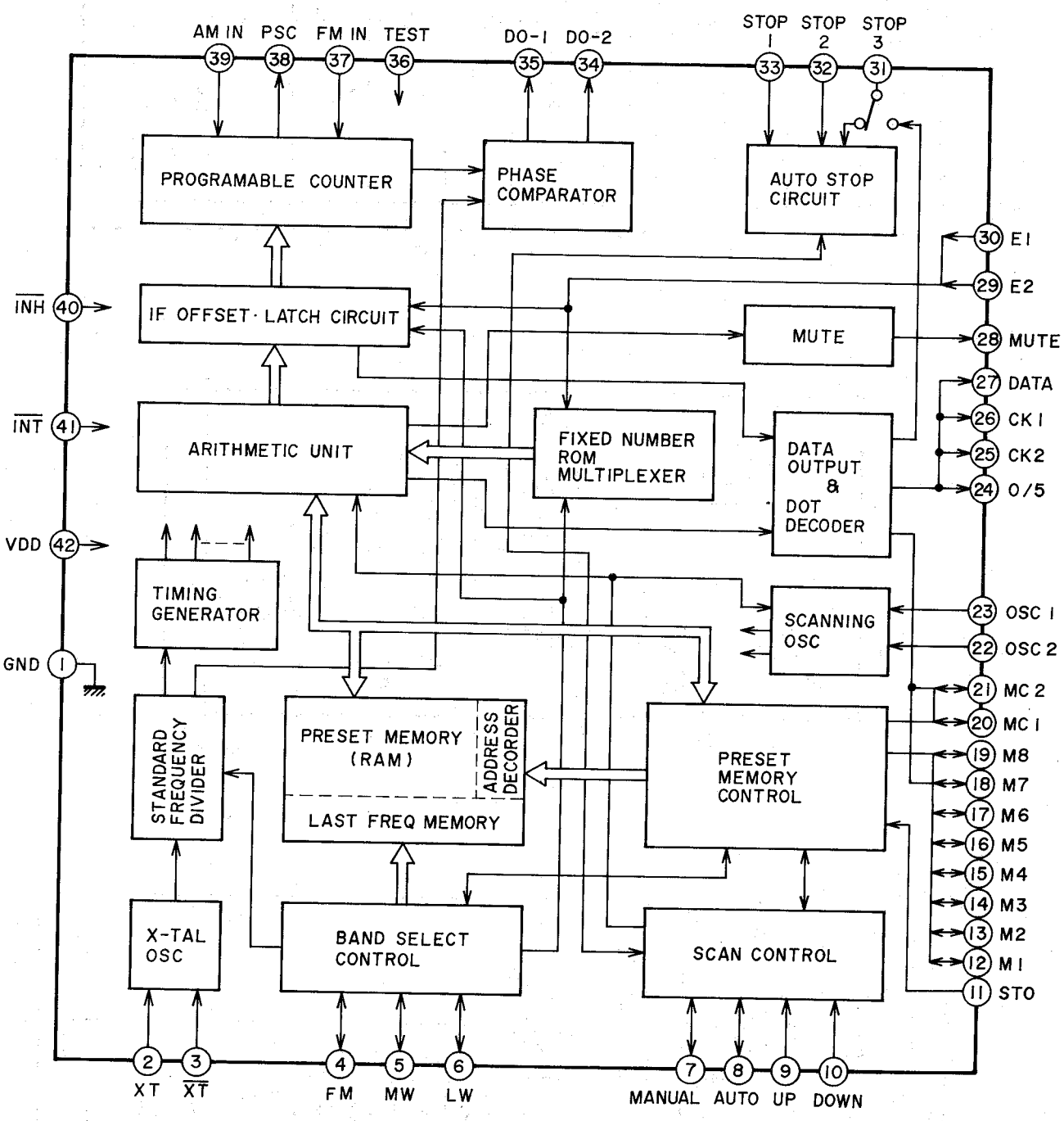
PARTS NO.	REF. NO.	PARTS NO.	REF. NO.	PARTS NO.	REF NO.	PARTS NO.	REF. NO.	PARTS NO.	REF. NO.
BC-711281	4-1								
BM-711284	4-4								
BM-711303	2-8								
ED-306724	1-D2								
ED-308951	1-D1								
ED-711333	1-D4								
ED-711333	1-D3								
EJ-346330	3-8								
ES-711327	1-1								
ES-711334	1-SW3								
ES-711335	2-26								
ET-701062	1-TR1								
EV-711331	1-VR1								
EV-711332	1-VR2								
EW-711312	3-13								
MB-711282	2-12								
MB-711282	4-2								
MB-711285	2-10								
MB-711285	4-5								
MB-711291	4-11								
MB-711304	2-9								
ML-711314	2-16								
ML-711315	2-17								
ML-711316	2-18								
ML-711319	2-21								
ML-711330	3-15								
MR-711295	2-1								
MR-711295	3-3								
MR-711298	3-7								
MR-711299	2-2								
MR-711301	2-4								
MS-711296	3-4								
MS-711296	3-6								
MS-711300	2-3								
MV-711321	2-23								
MV-711322	2-24								
MZ-711294	3-2								
MZ-711302	2-6								
SA-711293	3-1								
SD-711287	4-7								
SD-711308	3-9								
SD-711309	3-10								
SK-711306	4-13								
SK-711307	4-14								
SP-711310	3-11								
SP-711311	3-12								
SP-711329	3-14								
SZ-711328	4-18								
TP-711288	4-8								
TP-711289	4-9								
TP-711290	4-10								
TP-711292	4-12								
TP-711297	3-5								
TP-711313	2-15								
TP-711320	2-22								
TP-711324	4-15								
TP-711325	4-16								
ZG-711283	2-13								
ZG-711283	4-3								
ZG-711317	2-19								
ZG-711318	2-20								
ZS-711286	4-6								
ZS-711305	2-11								
ZS-711326	4-17								
ZW-259738	2-7								
ZW-269954	2-5								
ZW-302909	2-14								
ZW-711323	2-25								

TC4049BP



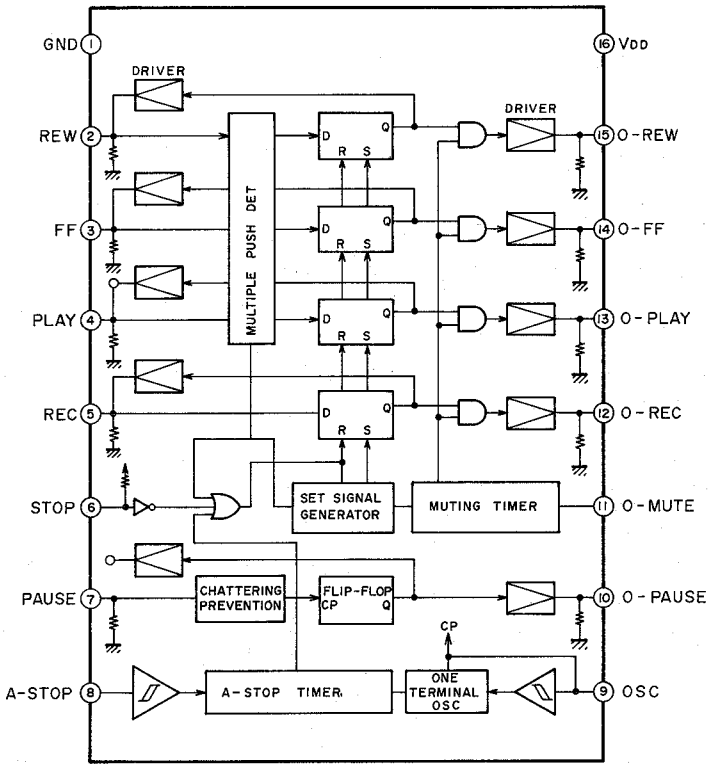
TC9147P



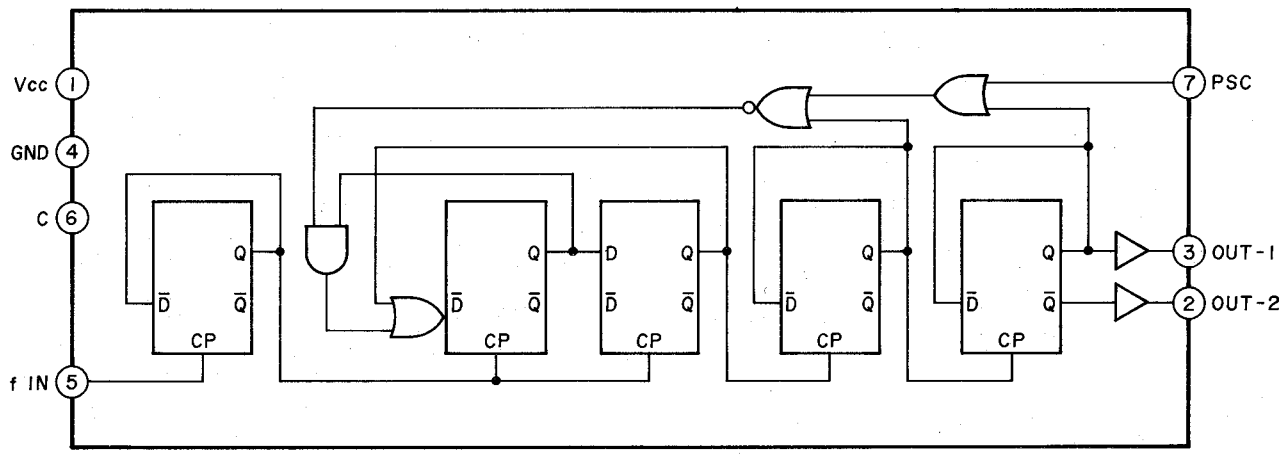
TERMINAL DESCRIPTION OF IC (TC9147P)

Pin No.	Symbol	Meaning	Function
1	GND	Ground	
2	XT	X-TAL OSC Terminals	Input Terminal of Standard Frequency OSC (X-TAL: 7.2MHz)
3	XT		
4	FM	FM Band Designation Input	Band Selector ACTIVE "High"
5	MW	MW Band Designation Input	
6	LW	LW Band Designation Input	
7	Manual	Manual Tuning Mode	Manual/Auto Tuning Selector
8	Auto	Auto Tuning Mode	
9	UP	UP Operation Key Input	UP/DOWN Tuning Selector
10	Down	Down Operation Key Input	
11	STO	Memory Store Command Input	Memory at preset memory operation
12 ~ 19	M1 ~ M8	Preset Memory Channel Designation Inputs	Random Access for 16-Preset-Memory with the inputs of MC1/MC2
20	MC1	Memory Control Input	⑧ Stations (FM/AM)/⑯ Stations (FM + MW + LW) Preset Memory Selector
21	MC2		
22	OSC2	AM OSC Terminal	CR Connector Terminal for AM Search Scan Speed
23	OSC1	FM OSC Terminal	CR Connection Terminal for FM Search Scan Speed
24	0/5	FM 50kHz Output	Level "H" Output for 50kHz Step (S. Africa and Europe area)
25	CK2	Receiving Frequency Data Serial Output	Supply Serial Data & Timing Clock to TD6301AP (Receiving Frequency Digital Display Driver)
26	CK1		
27	Data		
28	Mute	Muting Signal Output	Level "H" Output when Muting
29	E2	Area Desgination Input	Area Selector (Japan, US, Europe, S. Africa)
30	E1		
31	Stop 3	AM IF Signal Input	Stops Auto Search at AM IF (450kHz)
32	Stop 2	Auto Search Stop Signal Input	Stops Auto Search at Level "H" while level "H" at Stop 1
33	Stop 1	Scan Speed Slow-Down Input	1/2 Speed-Down of Auto Search at Level "H"
34	DO-2	Phase Comparator Output	Phase Comparator Output
35	DO-1		
36	Test	Test Terminal	Test Mode at Level "H"
37	FM in	FM Programable Counter Input	Connected to Prescaler (TD6104P) Output
38	PSC	Prescaler Control Output	Count-Down (1/30, 1/32) Designation Output for Prescaler
39	AM in	AM Programable Counter Input	AM Local OSC Signal Input
40	$\overline{INH}$	Inhibit Input	Normal at Level "H" Inhibit at Level "L"
41	$\overline{INT}$	Initialize Input	Normal at Level "H" Initialize at Level "L"
42	V_{DD}	Power Terminal	+5V is supplied

TC9143P



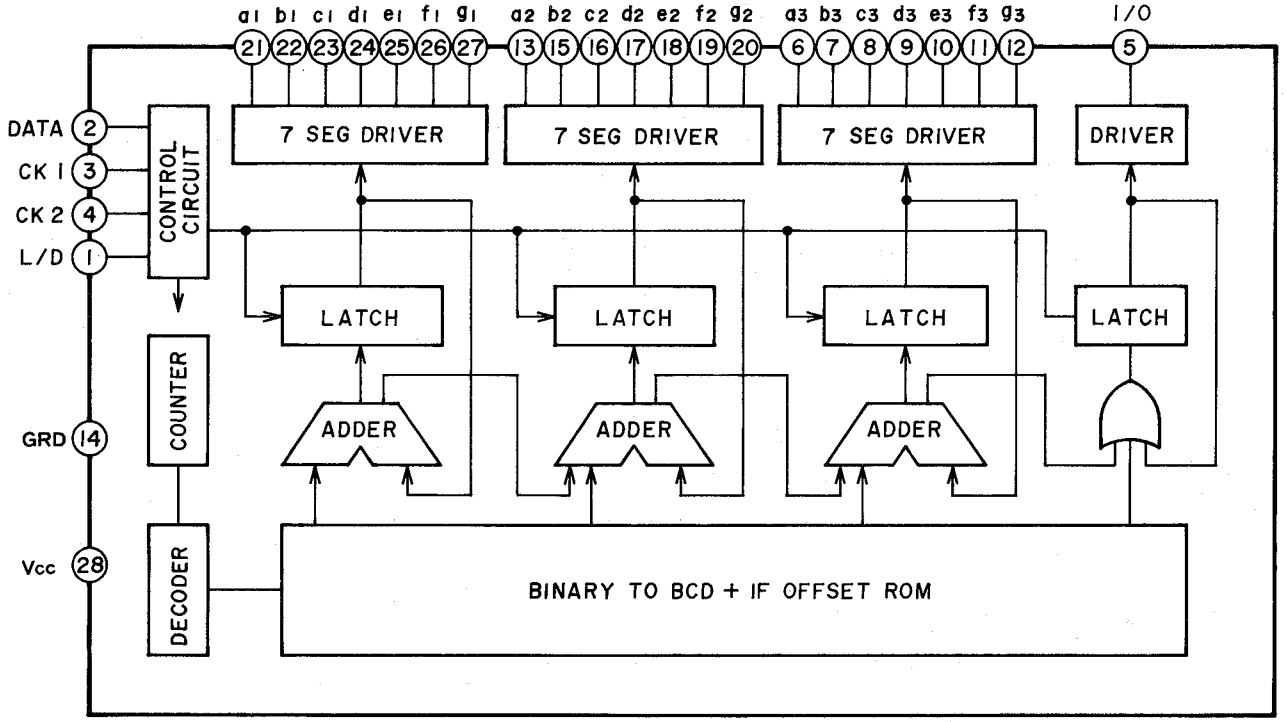
TD6104P



TERMINAL DESCRIPTION OF IC (TD6104P)

Pin No.	Symbol	Description
5	Fin	FM Local OSC Input
3	OUT-1	Count-Down Frequency Output (fin/30 or fin/32)
2	OUT-2	Inverted Output of OUT-1
7	PCS	Count-Down-Ratio Switch Signal Input 1/32 at Vpsc $\geq$ 2V 1/30 at Vpsc $\leq$ 1V
6	C	Bypass condenser terminal for bias circuit
1	Vcc	+5V
4	GND	Ground

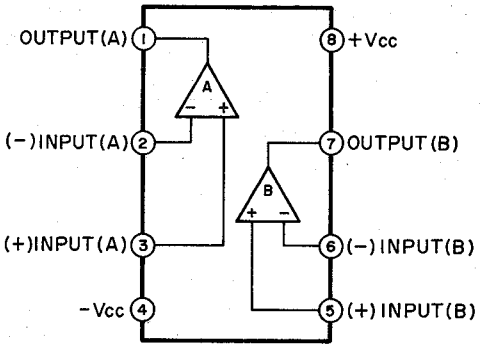
TD6301AP



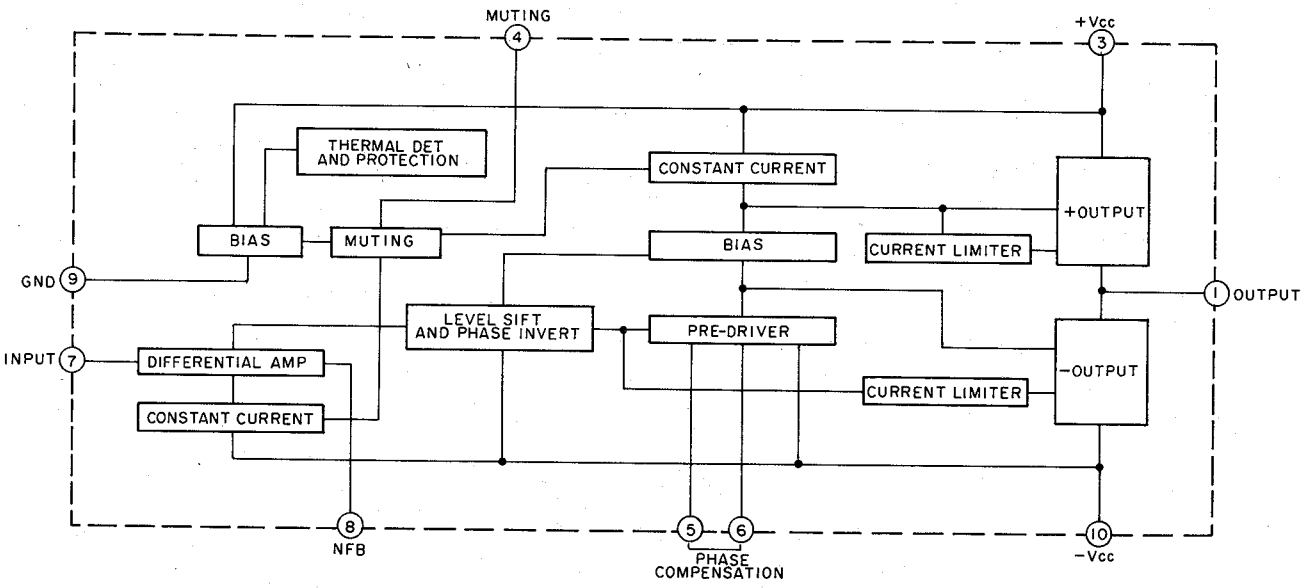
TERMINAL DESCRIPTION OF IC (TD6301AP)

Pin No.	Symbol	Description
1	L/D	Output Select Signal Input Terminal (To Change the Output for various Display such as LED, FL & LCD)
2	Data	Receiving Frequency Data Input Terminal (Serial Input from System Controller LSI)
3	CK1	Control Timing Input Terminal for Receiving Frequency Data Input (Simultaneously W/Data from System Controller LSI)
4	CK2	
5	I/0	Segment Driver Output Terminal for: FM: 100^S MHz AM: 1000^S kHz
6 ~ 12	a3 ~ g3	7 Segment Driver Output Terminals for: FM: 10^S MHz AM: 100^S kHz
13 15 ~ 20	a2 ~ g2	7 Segment Driver Output Terminals for: FM: 1^S MHz AM: 10^S kHz
21 ~ 27	a1 ~ g1	7 Segment Driver Output Terminals for: FM: 100^S kHz AM: 1^S kHz
14	Vcc	−16.8V
28	GND	−16.8V

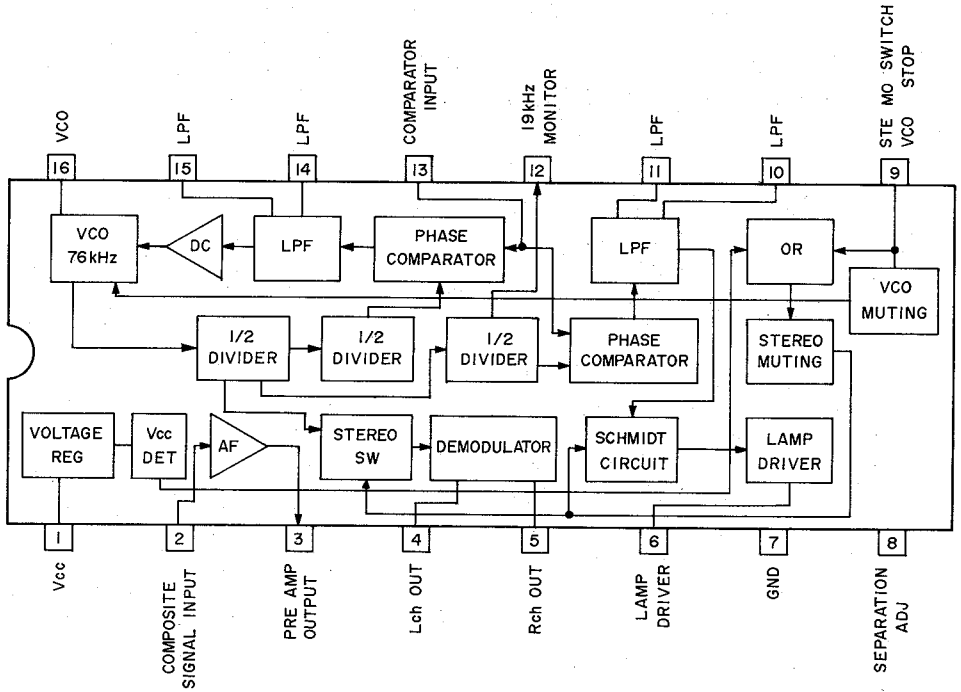
TLO72DE

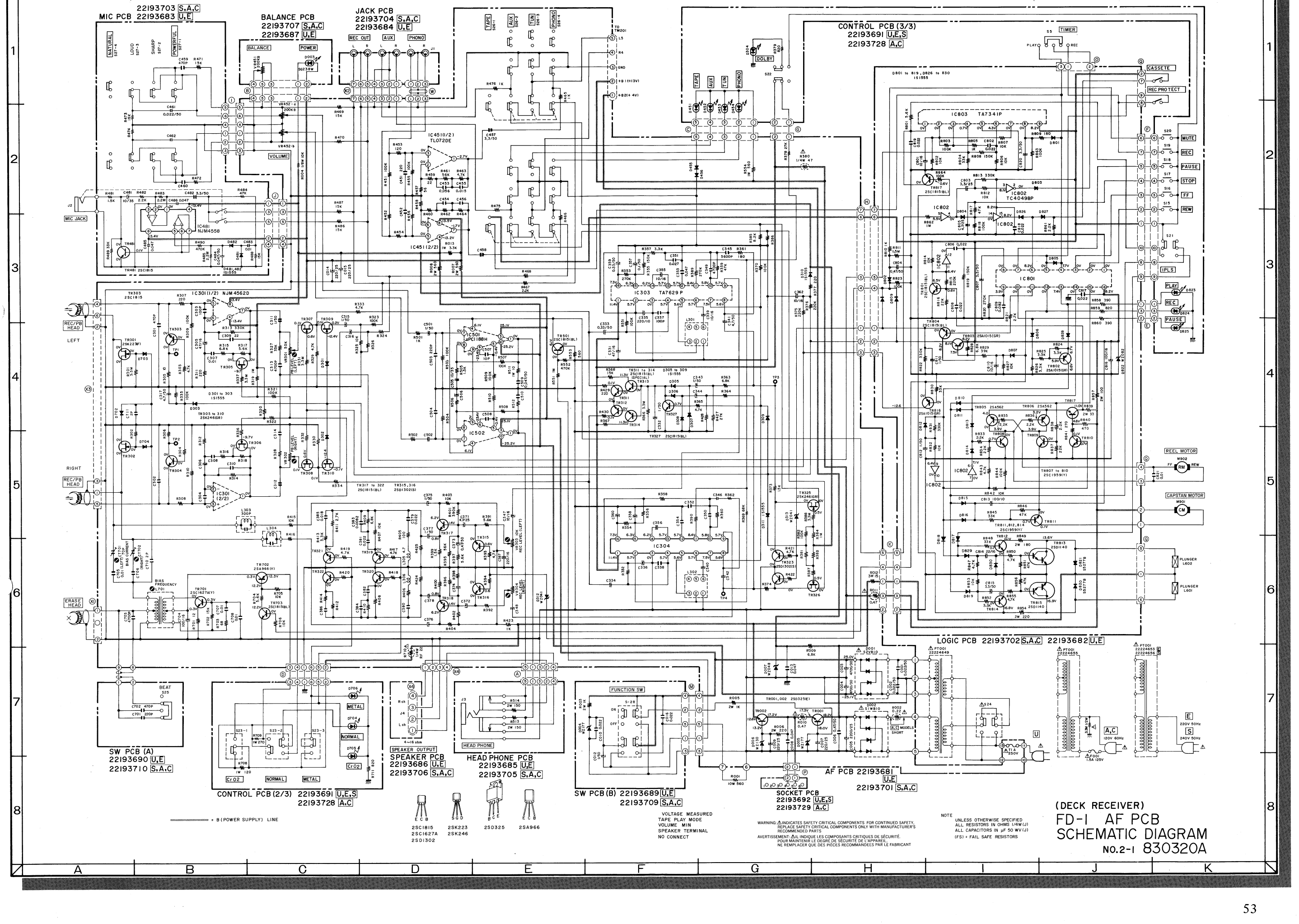


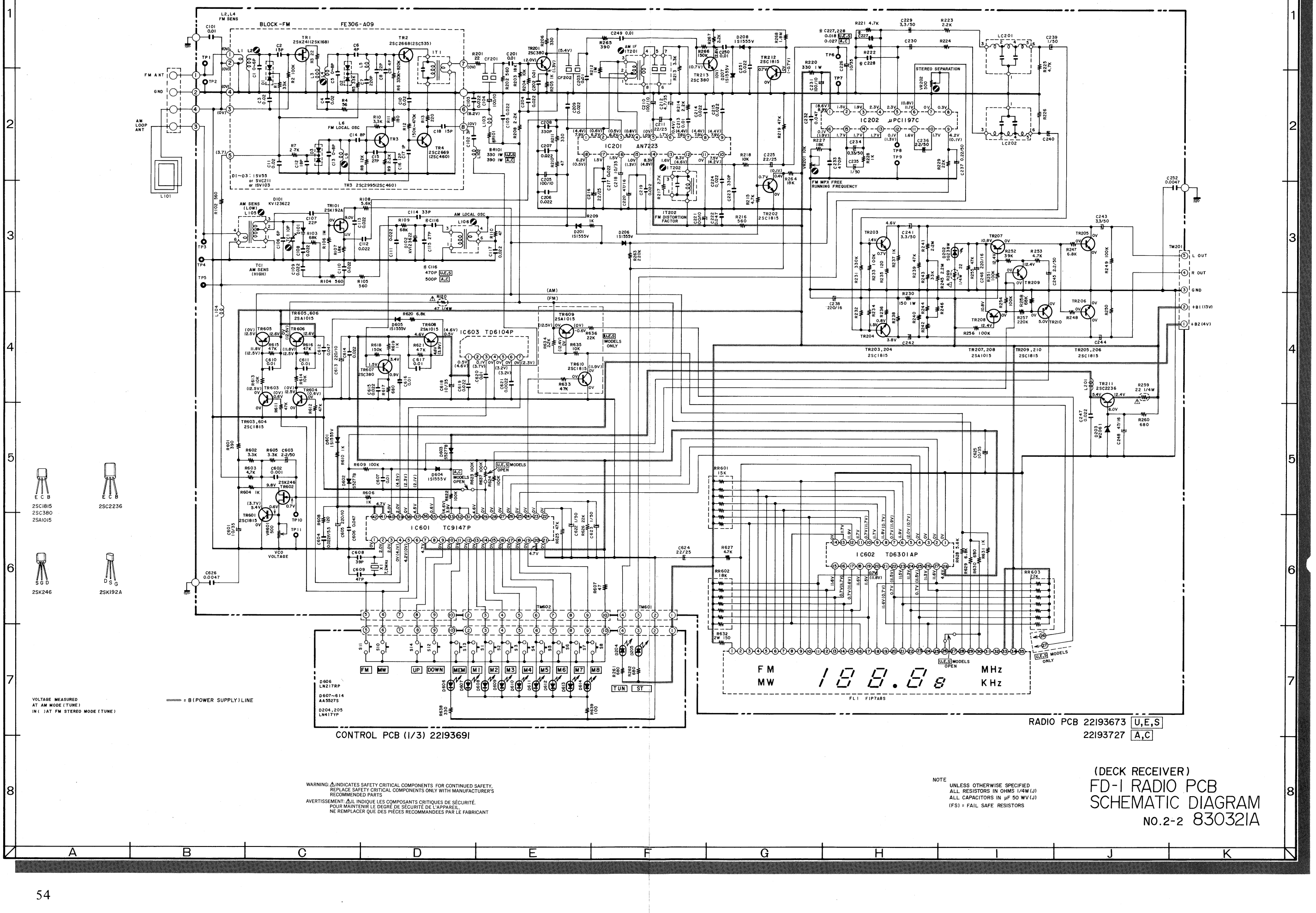
μPC1188H



μPC1197C




MIC PCB 22193683 U,E
22193703 S,A,C
BALANCE PCB
22193707 S,A,C
22193687 U,E
JACK PCB
22193704 S,A,C
22193684 U,E
CONTROL PCB (3/3)
22193691 U,E,S
22193728 A,C
LOGIC PCB 22193702 S,A,C 22193682 U,E
AF PCB 22193681 U,E
22193701 S,A,C
SW PCB (A)
22193690 U,E
22193710 S,A,C
SPEAKER PCB
22193686 U,E
22193706 S,A,C
HEAD PHONE PCB
22193685 U,E
22193705 S,A,C
CONTROL PCB (2/3) 22193691 U,E,S
22193728 A,C
SW PCB (B) 22193689 U,E
22193709 S,A,C
SOCKET PCB
22193692 U,E,S
22193729 A,C
IC451(1/2) TL072DE
IC451 (2/2)
IC481 NJM4558
IC301(1/2) NJM4562D
IC303 TA7629P
IC304
IC501 μPC1188H
IC502
IC803 TA7341P
IC802 TC4049BP
IC801
REC/PB HEAD
ERASE HEAD
MIC JACK
CAPSTAN MOTOR
REEL MOTOR
PLUNGER L602
PLUNGER L601
(DECK RECEIVER)
FD-1 AF PCB
SCHEMATIC DIAGRAM
NO.2-1 830320A



VOLTAGE MEASURED
AT AM MODE (TUNE)
IN ( )AT FM STEREO MODE (TUNE)

CONTROL PCB (1/3) 22193691

RADIO PCB 22193673 U,E,S
22193727 A,C

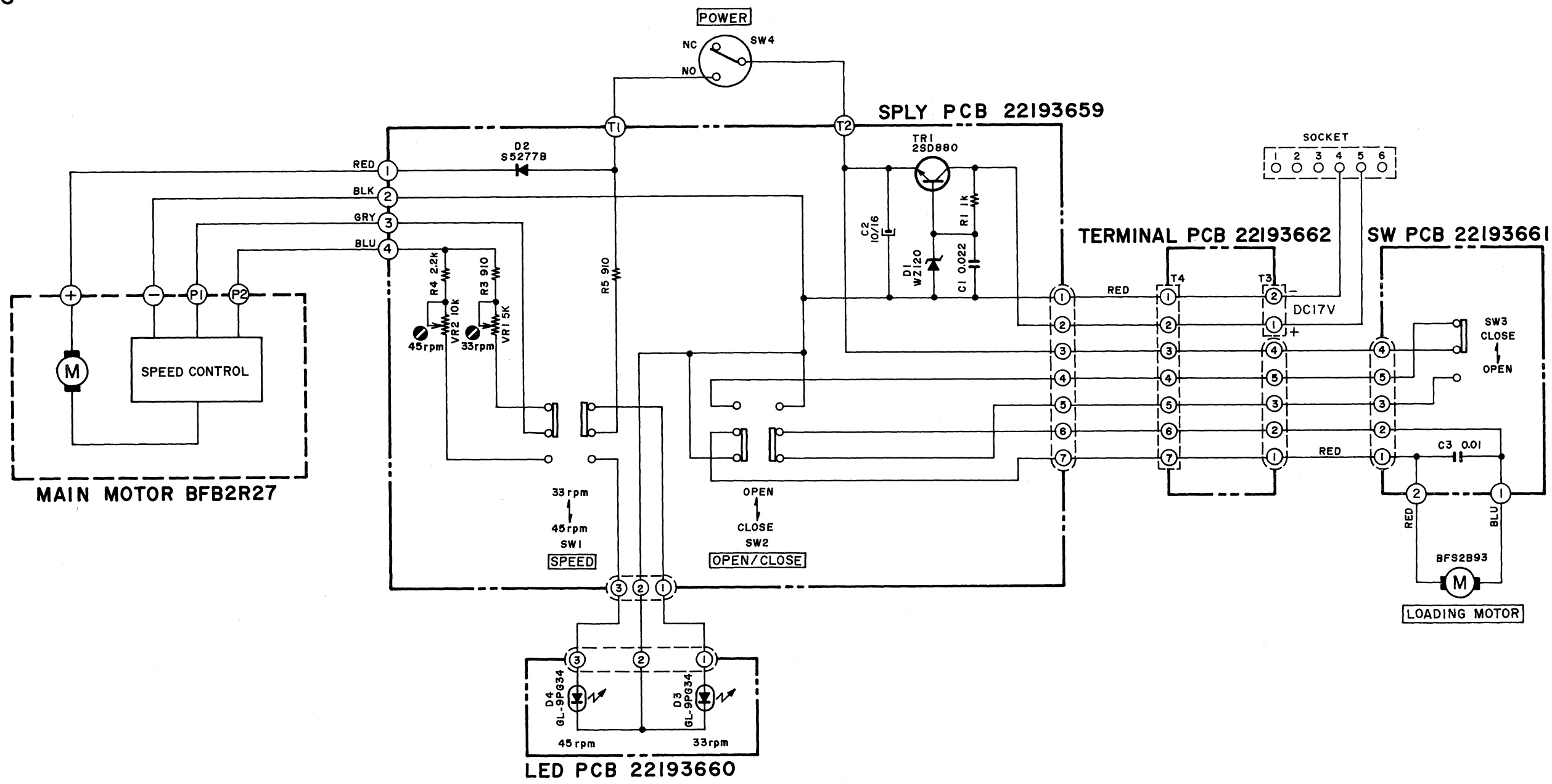
WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

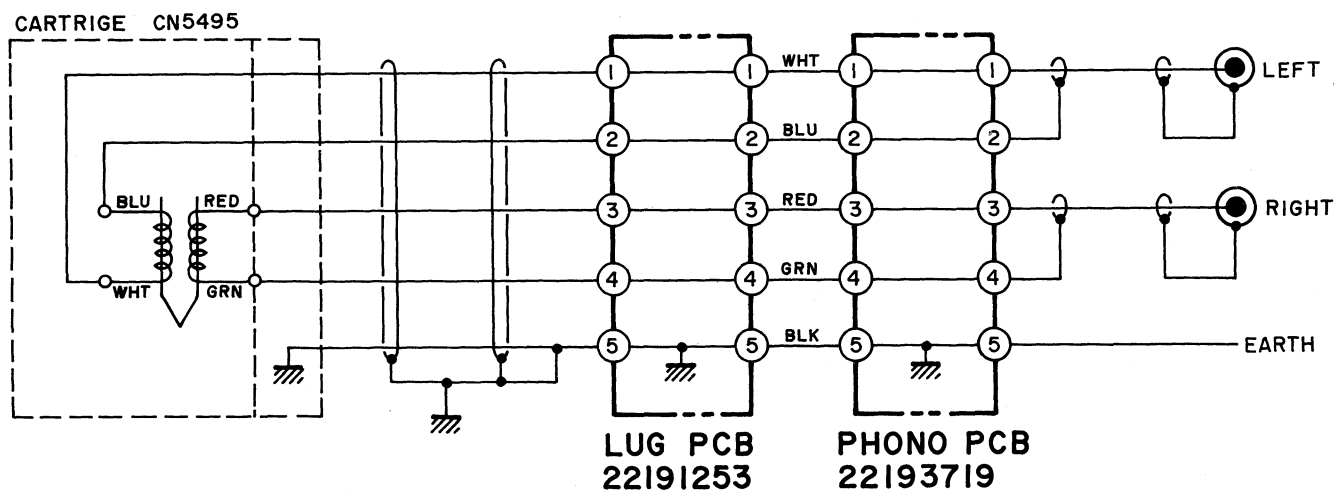
AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

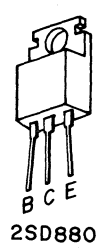
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 50 WV (J)
(FS) = FAIL SAFE RESISTORS

(DECK RECEIVER)
FD-I RADIO PCB SCHEMATIC DIAGRAM
NO.2-2 830321A

FP-3







NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 50 WV (J)

(TURNTABLE)

FP-3
SCHEMATIC DIAGRAM
NO. 830322A